SEQUENCE LISTING

<110> Isis Pharmaceuticals, Inc.

<120> Antisense Modulation Of SMRT Expression

<130> ISPT1004

<150> 10/174,014
<151> 2002-06-17

<160> 75

<170> PatentIn version 3.2

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Met Ser Gly Ser Thr Gln
1 5

cct gtg gca cag acg tgg agg gcc act gag ccc cgc tac ccg ccc cac 222

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Pro Val Ala Gln Thr Trp Arg Ala Thr Glu Pro Arg Tyr Pro Pro His
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Ser Leu Ser Tyr Pro Val Gln Ile Ala Arg Thr His Thr Asp Val Gly
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ctc ctg gag tac cag cac cac tcc cgc gac tat gcc tcc cac ctg tcg      318
Leu Leu Glu Tyr Gln His His Ser Arg Asp Tyr Ala Ser His Leu Ser
    40                  45                  50

ccc ggc tcc atc atc cag ccc cag cgg cgg agg ccc tcc ctg ctg tct      366
Pro Gly Ser Ile Ile Gln Pro Gln Arg Arg Arg Pro Ser Leu Leu Ser
55                  60                  65                  70

gag ttc cag ccc ggg aat gaa cgg tcc cag gag ctc cac ctg cgg cca      414
Glu Phe Gln Pro Gly Asn Glu Arg Ser Gln Glu Leu His Leu Arg Pro
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gag tcc cac tca tac ctg ccc gag ctg ggg aag tca gag atg gag ttc      462
Glu Ser His Ser Tyr Leu Pro Glu Leu Gly Lys Ser Glu Met Glu Phe
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att gaa agc aag cgc cct cgg cta gag ctg ctg cct gac ccc ctg ctg      510
Ile Glu Ser Lys Arg Pro Arg Leu Glu Leu Leu Pro Asp Pro Leu Leu
        105                 110                 115

cga ccg tca ccc ctg ctg gcc acg ggc cag cct gcg gga tct gaa gac      558
Arg Pro Ser Pro Leu Leu Ala Thr Gly Gln Pro Ala Gly Ser Glu Asp
    120                 125                 130

ctc acc aag gac cgt agc ctg acg ggc aag ctg gaa ccg gtg tct ccc      606
Leu Thr Lys Asp Arg Ser Leu Thr Gly Lys Leu Glu Pro Val Ser Pro
135                 140                 145                 150

ccc agc ccc ccg cac act gac cct gag ctg gag ctg gtg ccg cca cgg      654
Pro Ser Pro Pro His Thr Asp Pro Glu Leu Glu Leu Val Pro Pro Arg
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ctg tcc aag gag gag ctg atc cag aac atg gac cgc gtg gac cga gag      702
Leu Ser Lys Glu Glu Leu Ile Gln Asn Met Asp Arg Val Asp Arg Glu
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atc acc atg gta gag cag cag atc tct aag ctg aag aag aag cag caa      750
Ile Thr Met Val Glu Gln Gln Ile Ser Lys Leu Lys Lys Lys Gln Gln
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cag ctg gag gag gag gct gcc aag ccg ccc gag cct gag aag ccc gtg      798
Gln Leu Glu Glu Glu Ala Ala Lys Pro Pro Glu Pro Glu Lys Pro Val
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tca ccg ccg ccc atc gag tcg aag cac cgc agc ctg gtg cag atc atc      846
Ser Pro Pro Pro Ile Glu Ser Lys His Arg Ser Leu Val Gln Ile Ile
215                 220                 225                 230

tac gac gag aac cgg aag aag gct gaa gct gca cat cgg att ctg gaa      894
Tyr Asp Glu Asn Arg Lys Lys Ala Glu Ala Ala His Arg Ile Leu Glu
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ggc ctg ggg ccc cag gtg gag ctg ccg ctg tac aac cag ccc tcc gac      942
Gly Leu Gly Pro Gln Val Glu Leu Pro Leu Tyr Asn Gln Pro Ser Asp
            250                 255                 260

acc cgg cag tat cat gag aac atc aaa ata aac cag gcg atg cgg aag      990
Thr Arg Gln Tyr His Glu Asn Ile Lys Ile Asn Gln Ala Met Arg Lys
        265                 270                 275

aag cta atc ttg tac ttc aag agg agg aat cac gct cgg aaa caa tgg     1038
Lys Leu Ile Leu Tyr Phe Lys Arg Arg Asn His Ala Arg Lys Gln Trp
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Lys Lys Val Glu Arg Ile Glu Asn Asn Pro Arg Arg Arg Ala Lys Glu
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agc aag gtt cgc gag tac tac gag aag cag ttc cct gag atc cgc aag      1182
Ser Lys Val Arg Glu Tyr Tyr Glu Lys Gln Phe Pro Glu Ile Arg Lys
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cag cgc gag ctg cag gag cgc atg cag agg gtg ggc cag cgg ggc agt      1230
Gln Arg Glu Leu Gln Glu Arg Met Gln Arg Val Gly Gln Arg Gly Ser
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ggg ctg tcc atg tcg ccc gcc cgc agc gag cac gag gtg tca gag atc      1278
Gly Leu Ser Met Ser Pro Ala Arg Ser Glu His Glu Val Ser Glu Ile
    360                 365                 370

atc gat ggc ctc tca gag cag gag aac ctg gag aag cag atg cgc cag      1326
Ile Asp Gly Leu Ser Glu Gln Glu Asn Leu Glu Lys Gln Met Arg Gln
375                 380                 385                 390

ctg gcc gtg atc ccg ccc atg ctg tac gac gct gac cag cag cgc atc      1374
Leu Ala Val Ile Pro Pro Met Leu Tyr Asp Ala Asp Gln Gln Arg Ile
                395                 400                 405

aag ttc atc aac atg aac ggg ctt atg gcc gac ccc atg aag gtg tac      1422
Lys Phe Ile Asn Met Asn Gly Leu Met Ala Asp Pro Met Lys Val Tyr
            410                 415                 420

aaa gac cgc cag gtc atg aac atg tgg agt gag cag gag aag gag acc      1470
Lys Asp Arg Gln Val Met Asn Met Trp Ser Glu Gln Glu Lys Glu Thr
        425                 430                 435

ttc cgg gag aag ttc atg cag cat ccc aag aac ttt ggc ctg atc gca      1518
Phe Arg Glu Lys Phe Met Gln His Pro Lys Asn Phe Gly Leu Ile Ala
    440                 445                 450

tca ttc ctg gag agg aag aca gtg gct gag tgc gtc ctc tat tac tac      1566
Ser Phe Leu Glu Arg Lys Thr Val Ala Glu Cys Val Leu Tyr Tyr Tyr
455                 460                 465                 470

ctg act aag aag aat gag aac tat aag agc ctg gtg aga cgg agc tat      1614
Leu Thr Lys Lys Asn Glu Asn Tyr Lys Ser Leu Val Arg Arg Ser Tyr
                475                 480                 485

cgg cgc cgc ggc aag agc cag cag caa caa cag cag cag cag cag cag      1662
Arg Arg Arg Gly Lys Ser Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
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Gln Gln Gln Gln Gln Gln Gln Pro Met Pro Arg Ser Ser Gln Glu Glu
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aaa gat gag aag gag aag gaa aag gag gcg gag aag gag gag gag aag      1758
Lys Asp Glu Lys Glu Lys Glu Lys Glu Ala Glu Lys Glu Glu Glu Lys
    520                 525                 530

ccg gag gtg gag aac gac aag gaa gac ctc ctc aag gag aag aca gac      1806
Pro Glu Val Glu Asn Asp Lys Glu Asp Leu Leu Lys Glu Lys Thr Asp
535                 540                 545                 550

gac acc tca ggg gag gac aac gac gag aag gag gct gtg gcc tcc aaa      1854
Asp Thr Ser Gly Glu Asp Asn Asp Glu Lys Glu Ala Val Ala Ser Lys
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ggc cgc aaa act gcc aac agc cag gga aga cgc aaa ggc cgc atc acc      1902
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cag agc gcc gag ctg gcc tcc atg gag ctg aat gag agt tct cgc tgg      1998
Gln Ser Ala Glu Leu Ala Ser Met Glu Leu Asn Glu Ser Ser Arg Trp
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aca gaa gaa gaa atg gaa aca gcc aag aaa ggt ctc ctg gaa cac ggc      2046
Thr Glu Glu Glu Met Glu Thr Ala Lys Lys Gly Leu Leu Glu His Gly
615                 620                 625                 630

cgc aac tgg tcg gcc atc gcc cgg atg gtg ggc tcc aag act gtg tcg      2094
Arg Asn Trp Ser Ala Ile Ala Arg Met Val Gly Ser Lys Thr Val Ser
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gag atc ttg cag cag cac aag ctg aag atg gag aag gag agg aac gcg      2190
Glu Ile Leu Gln Gln His Lys Leu Lys Met Glu Lys Glu Arg Asn Ala
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Arg Arg Lys Lys Lys Lys Ala Pro Ala Ala Ala Ser Glu Glu Ala Ala
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ttc ccg ccc gtg gtg gag gat gag gag atg gag gcg tcg ggc gtg acg      2286
Phe Pro Pro Val Val Glu Asp Glu Glu Met Glu Ala Ser Gly Val Thr
695                 700                 705                 710

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Gly Asn Glu Glu Glu Met Val Glu Glu Ala Glu Ala Thr Val Asn Asn
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agc tca gac acc gag agc atc ccc tct cct cac act gag gcc gcc aag      2382
Ser Ser Asp Thr Glu Ser Ile Pro Ser Pro His Thr Glu Ala Ala Lys
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gac aca ggg cag aat ggg ccc aag ccc cca gcc acc ctg ggc gcc gac      2430
Asp Thr Gly Gln Asn Gly Pro Lys Pro Pro Ala Thr Leu Gly Ala Asp
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ggg cca ccc cca ggg cca ccc acc cca cca ccg gag gac atc ccg gcc      2478
Gly Pro Pro Pro Gly Pro Pro Thr Pro Pro Pro Glu Asp Ile Pro Ala
    760                 765                 770

ccc act gag tcc acc ccg gcc tct gaa gcc acc tta gcc cct acg ccc      2526
Pro Thr Glu Ser Thr Pro Ala Ser Glu Ala Thr Leu Ala Pro Thr Pro
775                 780                 785                 790

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Pro Pro Ala Pro Pro Phe Pro Ser Ser Pro Pro Pro Val Val Pro Lys
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Glu Glu Gln Lys Pro Pro Ala Ala Glu Glu Leu Ala Val Asp Thr Gly
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aag gcc gag gag ccc gtc aag agc gag tgc acg gag gaa gcc gag gag      2718
Lys Ala Glu Glu Pro Val Lys Ser Glu Cys Thr Glu Glu Ala Glu Glu
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aca gcc aag agc tcg ggc gcc ccc cag gac agc gac tcc agt gcc acc      2862
Thr Ala Lys Ser Ser Gly Ala Pro Gln Asp Ser Asp Ser Ser Ala Thr
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tgc agt gca gac gag gtg gat gag gcc gag ggc ggc gac aag aac cgg      2910
Cys Ser Ala Asp Glu Val Asp Glu Ala Glu Gly Gly Asp Lys Asn Arg
        905                 910                 915

ctg ctg tcc cca agg ccc agc ctc ctc acc ccg act ggc gac ccc cgg      2958
Leu Leu Ser Pro Arg Pro Ser Leu Leu Thr Pro Thr Gly Asp Pro Arg
    920                 925                 930

gcc aat gcc tca ccc cag aag cca ctg gac ctg aag cag ctg aag cag      3006
Ala Asn Ala Ser Pro Gln Lys Pro Leu Asp Leu Lys Gln Leu Lys Gln
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cga gcg gct gcc atc ccc ccc atc cag gtc acc aaa gtc cat gag ccc      3054
Arg Ala Ala Ala Ile Pro Pro Ile Gln Val Thr Lys Val His Glu Pro
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ccc cgg gag gac gca gct ccc acc aag cca gct ccc cca gcc cca ccg      3102
Pro Arg Glu Asp Ala Ala Pro Thr Lys Pro Ala Pro Pro Ala Pro Pro
            970                 975                 980

cca ccg caa aac ctg cag ccg gag agc gac gcc cct cag cag cct ggc      3150
Pro Pro Gln Asn Leu Gln Pro Glu Ser Asp Ala Pro Gln Gln Pro Gly
        985                 990                 995

agc agc  ccc cgg ggc aag agc  agg agc ccg gca ccc  ccc gcc gac      3195
Ser Ser  Pro Arg Gly Lys Ser  Arg Ser Pro Ala Pro  Pro Ala Asp
    1000                1005                1010

aag gag  gca gag aag cct gtg  ttc ttc cca gcc ttc  gca gcc gag      3240
Lys Glu  Ala Glu Lys Pro Val  Phe Phe Pro Ala Phe  Ala Ala Glu
    1015                1020                1025

gcc cag  aag ctg cct ggg gac  ccc cct tgc tgg act  tcc ggc ctg      3285
Ala Gln  Lys Leu Pro Gly Asp  Pro Pro Cys Trp Thr  Ser Gly Leu
    1030                1035                1040

ccc ttc  ccc gtg ccc ccc cgt  gag gtg atc aag gcc  tcc ccg cat      3330
Pro Phe  Pro Val Pro Pro Arg  Glu Val Ile Lys Ala  Ser Pro His
    1045                1050                1055

gcc ccg  gac ccc tca gcc ttc  tcc tac gct cca cct  ggt cac cca      3375
Ala Pro  Asp Pro Ser Ala Phe  Ser Tyr Ala Pro Pro  Gly His Pro
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ctg ccc  ctg ggc ctc cat gac  act gcc cgg ccc gtc  ctg ccg cgc      3420
Leu Pro  Leu Gly Leu His Asp  Thr Ala Arg Pro Val  Leu Pro Arg
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cca ccc  acc atc tcc aac ccg  cct ccc ctc atc tcc  tct gcc aag      3465
Pro Pro  Thr Ile Ser Asn Pro  Pro Pro Leu Ile Ser  Ser Ala Lys
    1090                1095                1100

cac ccc  agc gtc ctc gag agg  caa ata ggt gcc atc  tcc caa gga      3510
His Pro  Ser Val Leu Glu Arg  Gln Ile Gly Ala Ile  Ser Gln Gly
    1105                1110                1115

atg tcg  gtc cag ctc cac gtc  ccg tac tca gag cat  gcc aag gcc      3555
Met Ser  Val Gln Leu His Val  Pro Tyr Ser Glu His  Ala Lys Ala
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Lys Lys  Leu Ala Pro Phe Ser  Gly Val Lys Gln Glu  Gln Leu Ser
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cca cgg  ggc cag gct ggg cca  ccg gag agc ctg ggg  gtg ccc aca      3690
Pro Arg  Gly Gln Ala Gly Pro  Pro Glu Ser Leu Gly  Val Pro Thr
    1165                1170                1175

gcc cag  gag gcg tcc gtg ctg  aga ggg aca gct ctg  ggc tca gtt      3735
Ala Gln  Glu Ala Ser Val Leu  Arg Gly Thr Ala Leu  Gly Ser Val
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ccg ggc  gga agc atc acc aaa  ggc att ccc agc aca  cgg gtg ccc      3780
Pro Gly  Gly Ser Ile Thr Lys  Gly Ile Pro Ser Thr  Arg Val Pro
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tcg gac  agc gcc atc aca tac  cgc ggc tcc atc acc  cac ggc acg      3825
Ser Asp  Ser Ala Ile Thr Tyr  Arg Gly Ser Ile Thr  His Gly Thr
    1210                1215                1220

cca gct  gac gtc ctg tac aag  ggc acc atc acc agg  atc atc ggc      3870
Pro Ala  Asp Val Leu Tyr Lys  Gly Thr Ile Thr Arg  Ile Ile Gly
    1225                1230                1235

gag gac  agc ccg agt cgc ttg  gac cgc ggc cgg gag  gac agc ctg      3915
Glu Asp  Ser Pro Ser Arg Leu  Asp Arg Gly Arg Glu  Asp Ser Leu
    1240                1245                1250

ccc aag  ggc cac gtc atc tac  gaa ggc aag aag ggc  cac gtc ttg      3960
Pro Lys  Gly His Val Ile Tyr  Glu Gly Lys Lys Gly  His Val Leu
    1255                1260                1265

tcc tat  gag ggt ggc atg tct  gtg acc cag tgc tcc  aag gag gac      4005
Ser Tyr  Glu Gly Gly Met Ser  Val Thr Gln Cys Ser  Lys Glu Asp
    1270                1275                1280

ggc aga  agc agc tca gga ccc  ccc cat gag acg gcc  gcc ccc aag      4050
Gly Arg  Ser Ser Ser Gly Pro  Pro His Glu Thr Ala  Ala Pro Lys
    1285                1290                1295

cgc acc  tat gac atg atg gag  ggc cgc gtg ggc aga  gcc atc tcc      4095
Arg Thr  Tyr Asp Met Met Glu  Gly Arg Val Gly Arg  Ala Ile Ser
    1300                1305                1310

tca gcc  agc atc gaa ggt ctc  atg ggc cgt gcc atc  ccg ccg gag      4140
Ser Ala  Ser Ile Glu Gly Leu  Met Gly Arg Ala Ile  Pro Pro Glu
    1315                1320                1325

cga cac  agc ccc cac cac ctc  aaa gag cag cac cac  atc cgc ggg      4185
Arg His  Ser Pro His His Leu  Lys Glu Gln His His  Ile Arg Gly
    1330                1335                1340

tcc atc  aca caa ggg atc cct  cgg tcc tac gtg gag  gca cag gag      4230
Ser Ile  Thr Gln Gly Ile Pro  Arg Ser Tyr Val Glu  Ala Gln Glu
    1345                1350                1355

gac tac  ctg cgt cgg gag gcc  aag ctc cta aag cgg  gag ggc acg      4275
Asp Tyr  Leu Arg Arg Glu Ala  Lys Leu Leu Lys Arg  Glu Gly Thr
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cct ccg  ccc cca ccg ccc tca  cgg gac ctg acc gag  gcc tac aag      4320
Pro Pro  Pro Pro Pro Pro Ser  Arg Asp Leu Thr Glu  Ala Tyr Lys
    1375                1380                1385

acg cag  gcc ctg ggc ccc ctg  aag ctg aag ccg gcc  cat gag ggc      4365
Thr Gln  Ala Leu Gly Pro Leu  Lys Leu Lys Pro Ala  His Glu Gly
    1390                1395                1400
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ctg gtg  gcc acg gtg aag gag  gcg ggc cgc tcc atc  cat gag atc      4410
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ccg cgc  gag gag ctg cgg cac  acg ccc gag ctg ccc  ctg gcc ccg      4455
Pro Arg  Glu Glu Leu Arg His  Thr Pro Glu Leu Pro  Leu Ala Pro
    1420                 1425                 1430

cgg ccg  ctc aag gag ggc tcc  atc acg cag ggc acc  ccg ctc aag      4500
Arg Pro  Leu Lys Glu Gly Ser  Ile Thr Gln Gly Thr  Pro Leu Lys
    1435                 1440                 1445

tac gac  acc ggc gcg tcc acc  act ggc tcc aaa aag  cac gac gta      4545
Tyr Asp  Thr Gly Ala Ser Thr  Thr Gly Ser Lys Lys  His Asp Val
    1450                 1455                 1460

cgc tcc  ctc atc ggc agc ccc  ggc cgg acg ttc cca  ccc gtg cac      4590
Arg Ser  Leu Ile Gly Ser Pro  Gly Arg Thr Phe Pro  Pro Val His
    1465                 1470                 1475

ccg ctg  gat gtg atg gcc gac  gcc cgg gca ctg gaa  cgt gcc tgc      4635
Pro Leu  Asp Val Met Ala Asp  Ala Arg Ala Leu Glu  Arg Ala Cys
    1480                 1485                 1490

tac gag  gag agc ctg aag agc  cgg cca ggg acc gcc  agc agc tcg      4680
Tyr Glu  Glu Ser Leu Lys Ser  Arg Pro Gly Thr Ala  Ser Ser Ser
    1495                 1500                 1505

ggg ggc  tcc att gcg cgc ggc  gcc ccg gtc att gtg  cct gag ctg      4725
Gly Gly  Ser Ile Ala Arg Gly  Ala Pro Val Ile Val  Pro Glu Leu
    1510                 1515                 1520

ggt aag  ccg cgg cag agc ccc  ctg acc tat gag gac  cac ggg gca      4770
Gly Lys  Pro Arg Gln Ser Pro  Leu Thr Tyr Glu Asp  His Gly Ala
    1525                 1530                 1535

ccc ttt  gcc ggc cac ctc cca  cga ggt tcg ccc gtg  acc atg cgg      4815
Pro Phe  Ala Gly His Leu Pro  Arg Gly Ser Pro Val  Thr Met Arg
    1540                 1545                 1550

gag ccc  acg ccg cgc ctg cag  gag ggc agc ctt tcg  tcc agc aag      4860
Glu Pro  Thr Pro Arg Leu Gln  Glu Gly Ser Leu Ser  Ser Ser Lys
    1555                 1560                 1565

gca tcc  cag gac cga aag ctg  acg tcg acg cct cgt  gag atc gcc      4905
Ala Ser  Gln Asp Arg Lys Leu  Thr Ser Thr Pro Arg  Glu Ile Ala
    1570                 1575                 1580

aag tcc  ccg cac agc acc gtg  ccc gag cac cac cca  cac ccc atc      4950
Lys Ser  Pro His Ser Thr Val  Pro Glu His His Pro  His Pro Ile
    1585                 1590                 1595

tcg ccc  tat gag cac ctg ctt  cgg ggc gtg agt ggc  gtg gac ctg      4995
Ser Pro  Tyr Glu His Leu Leu  Arg Gly Val Ser Gly  Val Asp Leu
    1600                 1605                 1610

tat cgc  agc cac atc ccc ctg  gcc ttc gac ccc acc  tcc ata ccc      5040
Tyr Arg  Ser His Ile Pro Leu  Ala Phe Asp Pro Thr  Ser Ile Pro
    1615                 1620                 1625

cgc ggc  atc cct ctg gac gca  gcc gct gcc tac tac  ctg ccc cga      5085
Arg Gly  Ile Pro Leu Asp Ala  Ala Ala Ala Tyr Tyr  Leu Pro Arg
    1630                 1635                 1640

cac ctg  gcc ccc aac ccc acc  tac ccg cac ctg tac  cca ccc tac      5130
His Leu  Ala Pro Asn Pro Thr  Tyr Pro His Leu Tyr  Pro Pro Tyr
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ctc atc  cgc ggc tac ccc gac  acg gcg gcg ctg gag  aac cgg cag      5175
Leu Ile  Arg Gly Tyr Pro Asp  Thr Ala Ala Leu Glu  Asn Arg Gln
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acc atc  atc aat gac tac atc  acc tcg cag cag atg  cac cac aac      5220
Thr Ile  Ile Asn Asp Tyr Ile  Thr Ser Gln Gln Met  His His Asn
    1675                 1680                 1685

acg gcc  acc gcc atg gcc cag  cga gct gat atg ctg  agg ggc ctc      5265
Thr Ala  Thr Ala Met Ala Gln  Arg Ala Asp Met Leu  Arg Gly Leu
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tcg ccc  cgc gag tcc tcg ctg  gca ctc aac tac gct  gcg ggt ccc      5310
Ser Pro  Arg Glu Ser Ser Leu  Ala Leu Asn Tyr Ala  Ala Gly Pro
    1705                 1710                 1715

cga ggc  atc atc gac ctg tcc  caa gtg cca cac ctg  cct gtg ctc      5355
Arg Gly  Ile Ile Asp Leu Ser  Gln Val Pro His Leu  Pro Val Leu
    1720                 1725                 1730

gtg ccc  ccg aca cca ggc acc  cca gcc acc gcc atg  gac cgc ctt      5400
Val Pro  Pro Thr Pro Gly Thr  Pro Ala Thr Ala Met  Asp Arg Leu
    1735                 1740                 1745

gcc tac  ctc ccc acc gcg ccc  cag ccc ttc agc agc  cgc cac agc      5445
Ala Tyr  Leu Pro Thr Ala Pro  Gln Pro Phe Ser Ser  Arg His Ser
    1750                 1755                 1760

agc tcc  cca ctc tcc cca gga  ggt cca aca cac ttg  aca aaa cca      5490
Ser Ser  Pro Leu Ser Pro Gly  Gly Pro Thr His Leu  Thr Lys Pro
    1765                 1770                 1775

acc acc  acg tcc tcg tcc gag  cgg gag cga gac cgg  gat cga gag      5535
Thr Thr  Thr Ser Ser Ser Glu  Arg Glu Arg Asp Arg  Asp Arg Glu
    1780                 1785                 1790

cgg gac  cgg gat cgg gag cgg  gaa aag tcc atc ctc  acg tcc acc      5580
Arg Asp  Arg Asp Arg Glu Arg  Glu Lys Ser Ile Leu  Thr Ser Thr
    1795                 1800                 1805

acg acg  gtg gag cac gca ccc  atc tgg aga cct ggt  aca gag cag      5625
Thr Thr  Val Glu His Ala Pro  Ile Trp Arg Pro Gly  Thr Glu Gln
    1810                 1815                 1820

agc agc  ggc agc agc ggc agc  agc ggc ggg ggt ggg  ggc agc agc      5670
Ser Ser  Gly Ser Ser Gly Ser  Ser Gly Gly Gly Gly  Gly Ser Ser
    1825                 1830                 1835

agc cgc  ccc gcc tcc cac tcc  cat gcc cac cag cac  tcg ccc atc      5715
Ser Arg  Pro Ala Ser His Ser  His Ala His Gln His  Ser Pro Ile
    1840                 1845                 1850

tcc cct  cgg acc cag gat gcc  ctc cag cag aga ccc  agt gtg ctt      5760
Ser Pro  Arg Thr Gln Asp Ala  Leu Gln Gln Arg Pro  Ser Val Leu
    1855                 1860                 1865

cac aac  aca ggc atg aag ggt  atc atc acc gct gtg  gag ccc agc      5805
His Asn  Thr Gly Met Lys Gly  Ile Ile Thr Ala Val  Glu Pro Ser
    1870                 1875                 1880

aag ccc  acg gtc ctg agg tcc  acc tcc acc tcc tca  ccc gtt cgc      5850
Lys Pro  Thr Val Leu Arg Ser  Thr Ser Thr Ser Ser  Pro Val Arg
    1885                 1890                 1895

cca gct  gcc aca ttc cca cct  gcc acc cac tgc cca  ctg ggc ggc      5895
Pro Ala  Ala Thr Phe Pro Pro  Ala Thr His Cys Pro  Leu Gly Gly
    1900                 1905                 1910

acc ctc  gat ggg gtc tac cct  acc ctc atg gag ccc  gtc ttg ctg      5940
Thr Leu  Asp Gly Val Tyr Pro  Thr Leu Met Glu Pro  Val Leu Leu
    1915                 1920                 1925

ccc aag  gag gcc ccc cgg gtc  gcc cgg cca gag cgg  ccc cga gca      5985
Pro Lys  Glu Ala Pro Arg Val  Ala Arg Pro Glu Arg  Pro Arg Ala
```

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    1930                1935                1940

gac acc  ggc cat gcc ttc ctc  gcc aag ccc cca gcc  cgc tcc ggg      6030
Asp Thr  Gly His Ala Phe Leu  Ala Lys Pro Pro Ala  Arg Ser Gly
    1945                1950                1955

ctg gag  ccc gcc tcc tcc ccc  agc aag ggc tcg gag  ccc cgg ccc      6075
Leu Glu  Pro Ala Ser Ser Pro  Ser Lys Gly Ser Glu  Pro Arg Pro
    1960                1965                1970

cta gtg  cct cct gtc tct ggc  cac gcc acc atc gcc  cgc acc cct      6120
Leu Val  Pro Pro Val Ser Gly  His Ala Thr Ile Ala  Arg Thr Pro
    1975                1980                1985

gcg aag  aac ctc gca cct cac  cac gcc agc ccg gac  ccg ccg gcg      6165
Ala Lys  Asn Leu Ala Pro His  His Ala Ser Pro Asp  Pro Pro Ala
    1990                1995                2000

cca cct  gcc tcg gcc tcg gac  ccg cac cgg gaa aag  act caa agt      6210
Pro Pro  Ala Ser Ala Ser Asp  Pro His Arg Glu Lys  Thr Gln Ser
    2005                2010                2015

aaa ccc  ttt tcc atc cag gaa  ctg gaa ctc cgt tct  ctg ggt tac      6255
Lys Pro  Phe Ser Ile Gln Glu  Leu Glu Leu Arg Ser  Leu Gly Tyr
    2020                2025                2030

cac ggc  agc agc tac agc ccc  gaa ggg gtg gag ccc  gtc agc cct      6300
His Gly  Ser Ser Tyr Ser Pro  Glu Gly Val Glu Pro  Val Ser Pro
    2035                2040                2045

gtg agc  tca ccc agt ctg acc  cac gac aag ggg ctc  ccc aag cac      6345
Val Ser  Ser Pro Ser Leu Thr  His Asp Lys Gly Leu  Pro Lys His
    2050                2055                2060

ctg gaa  gag ctc gac aag agc  cac ctg gag ggg gag  ctg cgg ccc      6390
Leu Glu  Glu Leu Asp Lys Ser  His Leu Glu Gly Glu  Leu Arg Pro
    2065                2070                2075

aag cag  cca ggc ccc gtg aag  ctt ggc ggg gag gcc  gcc cac ctc      6435
Lys Gln  Pro Gly Pro Val Lys  Leu Gly Gly Glu Ala  Ala His Leu
    2080                2085                2090

cca cac  ctg cgg ccg ctg cct  gag agc cag ccc tcg  tcc agc ccg      6480
Pro His  Leu Arg Pro Leu Pro  Glu Ser Gln Pro Ser  Ser Ser Pro
    2095                2100                2105

ctg ctc  cag acc gcc cca ggg  gtc aaa ggt cac cag  cgg gtg gtc      6525
Leu Leu  Gln Thr Ala Pro Gly  Val Lys Gly His Gln  Arg Val Val
    2110                2115                2120

acc ctg  gcc cag cac atc agt  gag gtc atc aca cag  gac tac acc      6570
Thr Leu  Ala Gln His Ile Ser  Glu Val Ile Thr Gln  Asp Tyr Thr
    2125                2130                2135

cgg cac  cac cca cag cag ctc  agc gca ccc ctg ccc  gcc ccc ctc      6615
Arg His  His Pro Gln Gln Leu  Ser Ala Pro Leu Pro  Ala Pro Leu
    2140                2145                2150

tac tcc  ttc cct ggg gcc agc  tgc ccc gtc ctg gac  ctc cgc cgc      6660
Tyr Ser  Phe Pro Gly Ala Ser  Cys Pro Val Leu Asp  Leu Arg Arg
    2155                2160                2165

cca ccc  agt gac ctc tac ctc  ccg ccc ccg gac cat  ggt gcc ccg      6705
Pro Pro  Ser Asp Leu Tyr Leu  Pro Pro Pro Asp His  Gly Ala Pro
    2170                2175                2180

gcc cgt  ggc tcc ccc cac agc  gaa ggg ggc aag agg  tct cca gag      6750
Ala Arg  Gly Ser Pro His Ser  Glu Gly Gly Lys Arg  Ser Pro Glu
    2185                2190                2195

cca aac  aag acg tcg gtc ttg  ggt ggt ggt gag gac  ggt att gaa      6795
```

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Pro Asn  Lys Thr Ser Val Leu  Gly Gly Gly Glu Asp  Gly Ile Glu
    2200                 2205                 2210

cct gtg  tcc cca ccg gag ggc  atg acg gag cca ggg  cac tcc cgg      6840
Pro Val  Ser Pro Pro Glu Gly  Met Thr Glu Pro Gly  His Ser Arg
    2215                 2220                 2225

agt gct  gtg tac ccg ctg ctg  tac cgg gat ggg gaa  cag acg gag      6885
Ser Ala  Val Tyr Pro Leu Leu  Tyr Arg Asp Gly Glu  Gln Thr Glu
    2230                 2235                 2240

ccc agc  agg atg ggc tcc aag  tct cca ggc aac acc  agc cag ccg      6930
Pro Ser  Arg Met Gly Ser Lys  Ser Pro Gly Asn Thr  Ser Gln Pro
    2245                 2250                 2255

cca gcc  ttc ttc agc aag ctg  acc gag agc aac tcc  gcc atg gtc      6975
Pro Ala  Phe Phe Ser Lys Leu  Thr Glu Ser Asn Ser  Ala Met Val
    2260                 2265                 2270

aag tcc  aag aag caa gag atc  aac aag aag ctg aac  acc cac aac      7020
Lys Ser  Lys Lys Gln Glu Ile  Asn Lys Lys Leu Asn  Thr His Asn
    2275                 2280                 2285

cgg aat  gag cct gaa tac aat  atc agc cag cct ggg  acg gag atc      7065
Arg Asn  Glu Pro Glu Tyr Asn  Ile Ser Gln Pro Gly  Thr Glu Ile
    2290                 2295                 2300

ttc aat  atg ccc gcc atc acc  gga aca ggc ctt atg  acc tat aga      7110
Phe Asn  Met Pro Ala Ile Thr  Gly Thr Gly Leu Met  Thr Tyr Arg
    2305                 2310                 2315

agc cag  gcg gtg cag gaa cat  gcc agc acc aac atg  ggg ctg gag      7155
Ser Gln  Ala Val Gln Glu His  Ala Ser Thr Asn Met  Gly Leu Glu
    2320                 2325                 2330

gcc ata  att aga aag gca ctc  atg ggt aaa tat gac  cag tgg gaa      7200
Ala Ile  Ile Arg Lys Ala Leu  Met Gly Lys Tyr Asp  Gln Trp Glu
    2335                 2340                 2345

gag tcc  ccg ccg ctc agc gcc  aat gct ttt aac cct  ctg aat gcc      7245
Glu Ser  Pro Pro Leu Ser Ala  Asn Ala Phe Asn Pro  Leu Asn Ala
    2350                 2355                 2360

agt gcc  agc ctg ccc gct gct  atg ccc ata acc gct  gct gac gga      7290
Ser Ala  Ser Leu Pro Ala Ala  Met Pro Ile Thr Ala  Ala Asp Gly
    2365                 2370                 2375

cgg agt  gac cac aca ctc acc  tcg cca ggt ggc ggc  ggg aag gcc      7335
Arg Ser  Asp His Thr Leu Thr  Ser Pro Gly Gly Gly  Gly Lys Ala
    2380                 2385                 2390

aag gtc  tct ggc aga ccc agc  agc cga aaa gcc aag  tcc ccg gcc      7380
Lys Val  Ser Gly Arg Pro Ser  Ser Arg Lys Ala Lys  Ser Pro Ala
    2395                 2400                 2405

ccg ggc  ctg gca tct ggg gac  cgg cca ccc tct gtc  tcc tca gtg      7425
Pro Gly  Leu Ala Ser Gly Asp  Arg Pro Pro Ser Val  Ser Ser Val
    2410                 2415                 2420

cac tcg  gag gga gac tgc aac  cgc cgg acg ccg ctc  acc aac cgc      7470
His Ser  Glu Gly Asp Cys Asn  Arg Arg Thr Pro Leu  Thr Asn Arg
    2425                 2430                 2435

gtg tgg  gag gac agg ccc tcg  tcc gca ggt tcc acg  cca ttc ccc      7515
Val Trp  Glu Asp Arg Pro Ser  Ser Ala Gly Ser Thr  Pro Phe Pro
    2440                 2445                 2450

tac aac  ccc ctg atc atg cgg  ctg cag gcg ggt gtc  atg gct tcc      7560
Tyr Asn  Pro Leu Ile Met Arg  Leu Gln Ala Gly Val  Met Ala Ser
    2455                 2460                 2465
```

```
cca ccc  cca ccg ggc ctc ccc  gcg ggc agc ggg ccc  ctc gct ggc      7605
Pro Pro  Pro Pro Gly Leu Pro  Ala Gly Ser Gly Pro  Leu Ala Gly
    2470                 2475                 2480

ccc cac  cac gcc tgg gac gag  gag ccc aag cca ctg  ctc tgc tcg      7650
Pro His  His Ala Trp Asp Glu  Glu Pro Lys Pro Leu  Leu Cys Ser
    2485                 2490                 2495

cag tac  gag aca ctc tcc gac  agc gag tga ctcagaacag ggcgggggg     7700
Gln Tyr  Glu Thr Leu Ser Asp  Ser Glu
    2500                 2505

ggcgggcggt gtcaggtccc agcgagccac aggaacggcc ctgcaggagc ggggcggctg  7760

ccgactcccc caaccaagga aggagcccct gagtccgcct gcgcctccat ccatctgtcc  7820

gtccagagcc ggcatccttg cctgtctaaa gccttaacta agactcccgc cccgggctgg  7880

ccctgtgcag accttactca ggggatgttt acctggtgct cgggaaggga ggggaagggg  7940

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<212> PRT
<213> homo sapiens

<400> 5

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1               5                  10                  15

Pro Arg Tyr Pro Pro His Ser Leu Ser Tyr Pro Val Gln Ile Ala Arg
            20                  25                  30

Thr His Thr Asp Val Gly Leu Leu Glu Tyr Gln His His Ser Arg Asp
        35                  40                  45

Tyr Ala Ser His Leu Ser Pro Gly Ser Ile Ile Gln Pro Gln Arg Arg
    50                  55                  60

Arg Pro Ser Leu Leu Ser Glu Phe Gln Pro Gly Asn Glu Arg Ser Gln
```

65 70 75 80

Glu Leu His Leu Arg Pro Glu Ser His Ser Tyr Leu Pro Glu Leu Gly
85 90 95

Lys Ser Glu Met Glu Phe Ile Glu Ser Lys Arg Pro Arg Leu Glu Leu
100 105 110

Leu Pro Asp Pro Leu Leu Arg Pro Ser Pro Leu Leu Ala Thr Gly Gln
115 120 125

Pro Ala Gly Ser Glu Asp Leu Thr Lys Asp Arg Ser Leu Thr Gly Lys
130 135 140

Leu Glu Pro Val Ser Pro Pro Ser Pro Pro His Thr Asp Pro Glu Leu
145 150 155 160

Glu Leu Val Pro Pro Arg Leu Ser Lys Glu Glu Leu Ile Gln Asn Met
165 170 175

Asp Arg Val Asp Arg Glu Ile Thr Met Val Glu Gln Gln Ile Ser Lys
180 185 190

Leu Lys Lys Lys Gln Gln Gln Leu Glu Glu Glu Ala Ala Lys Pro Pro
195 200 205

Glu Pro Glu Lys Pro Val Ser Pro Pro Pro Ile Glu Ser Lys His Arg
210 215 220

Ser Leu Val Gln Ile Ile Tyr Asp Glu Asn Arg Lys Lys Ala Glu Ala
225 230 235 240

Ala His Arg Ile Leu Glu Gly Leu Gly Pro Gln Val Glu Leu Pro Leu
245 250 255

Tyr Asn Gln Pro Ser Asp Thr Arg Gln Tyr His Glu Asn Ile Lys Ile
260 265 270

Asn Gln Ala Met Arg Lys Lys Leu Ile Leu Tyr Phe Lys Arg Arg Asn
275 280 285

His Ala Arg Lys Gln Trp Glu Gln Lys Phe Cys Gln Arg Tyr Asp Gln
290 295 300

Leu Met Glu Ala Trp Glu Lys Lys Val Glu Arg Ile Glu Asn Asn Pro
305 310 315 320

Arg Arg Arg Ala Lys Glu Ser Lys Val Arg Glu Tyr Tyr Glu Lys Gln
325 330 335

Phe Pro Glu Ile Arg Lys Gln Arg Glu Leu Gln Glu Arg Met Gln Arg
340 345 350

Val Gly Gln Arg Gly Ser Gly Leu Ser Met Ser Pro Ala Arg Ser Glu
355 360 365

His Glu Val Ser Glu Ile Ile Asp Gly Leu Ser Glu Gln Glu Asn Leu
370 375 380

Glu Lys Gln Met Arg Gln Leu Ala Val Ile Pro Pro Met Leu Tyr Asp
385 390 395 400

Ala Asp Gln Gln Arg Ile Lys Phe Ile Asn Met Asn Gly Leu Met Ala
405 410 415

Asp Pro Met Lys Val Tyr Lys Asp Arg Gln Val Met Asn Met Trp Ser
420 425 430

Glu Gln Glu Lys Glu Thr Phe Arg Glu Lys Phe Met Gln His Pro Lys
435 440 445

Asn Phe Gly Leu Ile Ala Ser Phe Leu Glu Arg Lys Thr Val Ala Glu
450 455 460

Cys Val Leu Tyr Tyr Tyr Leu Thr Lys Lys Asn Glu Asn Tyr Lys Ser
465 470 475 480

Leu Val Arg Arg Ser Tyr Arg Arg Arg Gly Lys Ser Gln Gln Gln Gln
485 490 495

Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Pro Met Pro
500 505 510

Arg Ser Ser Gln Glu Glu Lys Asp Glu Lys Glu Lys Glu Lys Glu Ala
515 520 525

Glu Lys Glu Glu Glu Lys Pro Glu Val Glu Asn Asp Lys Glu Asp Leu
530 535 540

Leu Lys Glu Lys Thr Asp Asp Thr Ser Gly Glu Asp Asn Asp Glu Lys
545 550 555 560

Glu Ala Val Ala Ser Lys Gly Arg Lys Thr Ala Asn Ser Gln Gly Arg
565 570 575

Arg Lys Gly Arg Ile Thr Arg Ser Met Ala Asn Glu Ala Asn Ser Glu
580 585 590

Glu Ala Ile Thr Pro Gln Gln Ser Ala Glu Leu Ala Ser Met Glu Leu
595 600 605

Asn Glu Ser Ser Arg Trp Thr Glu Glu Glu Met Glu Thr Ala Lys Lys
610 615 620

Gly Leu Leu Glu His Gly Arg Asn Trp Ser Ala Ile Ala Arg Met Val
625 630 635 640

Gly Ser Lys Thr Val Ser Gln Cys Lys Asn Phe Tyr Phe Asn Tyr Lys
645 650 655

Lys Arg Gln Asn Leu Asp Glu Ile Leu Gln Gln His Lys Leu Lys Met
660 665 670

Glu Lys Glu Arg Asn Ala Arg Arg Lys Lys Lys Lys Ala Pro Ala Ala
675 680 685

Ala Ser Glu Glu Ala Ala Phe Pro Pro Val Val Glu Asp Glu Glu Met
690 695 700

Glu Ala Ser Gly Val Thr Gly Asn Glu Glu Glu Met Val Glu Glu Ala
705 710 715 720

Glu Ala Thr Val Asn Asn Ser Ser Asp Thr Glu Ser Ile Pro Ser Pro
725 730 735

His Thr Glu Ala Ala Lys Asp Thr Gly Gln Asn Gly Pro Lys Pro Pro
740 745 750

Ala Thr Leu Gly Ala Asp Gly Pro Pro Pro Gly Pro Pro Thr Pro Pro
755 760 765

Pro Glu Asp Ile Pro Ala Pro Thr Glu Ser Thr Pro Ala Ser Glu Ala
770 775 780

Thr Leu Ala Pro Thr Pro Pro Pro Ala Pro Pro Phe Pro Ser Ser Pro
785 790 795 800

Pro Pro Val Val Pro Lys Glu Glu Lys Glu Glu Glu Thr Ala Ala Ala
805 810 815

Pro Pro Val Glu Glu Gly Glu Glu Gln Lys Pro Pro Ala Ala Glu Glu
820 825 830

Leu Ala Val Asp Thr Gly Lys Ala Glu Glu Pro Val Lys Ser Glu Cys
835 840 845

Thr Glu Glu Ala Glu Glu Gly Pro Ala Lys Gly Lys Asp Ala Glu Ala
850 855 860

Ala Glu Ala Thr Ala Glu Arg Ala Leu Lys Ala Glu Lys Lys Glu Gly
865 870 875 880

Gly Ser Gly Arg Ala Thr Thr Ala Lys Ser Ser Gly Ala Pro Gln Asp
885 890 895

Ser Asp Ser Ser Ala Thr Cys Ser Ala Asp Glu Val Asp Glu Ala Glu
900 905 910

Gly Gly Asp Lys Asn Arg Leu Leu Ser Pro Arg Pro Ser Leu Leu Thr
915 920 925

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Pro Thr Gly Asp Pro Arg Ala Asn Ala Ser Pro Gln Lys Pro Leu Asp
    930                 935                 940

Leu Lys Gln Leu Lys Gln Arg Ala Ala Ala Ile Pro Pro Ile Gln Val
945                 950                 955                 960

Thr Lys Val His Glu Pro Pro Arg Glu Asp Ala Ala Pro Thr Lys Pro
                965                 970                 975

Ala Pro Pro Ala Pro Pro Pro Pro Gln Asn Leu Gln Pro Glu Ser Asp
            980                 985                 990

Ala Pro Gln Gln Pro Gly Ser Ser  Pro Arg Gly Lys Ser  Arg Ser Pro
        995                 1000                1005

Ala Pro  Pro Ala Asp Lys Glu  Ala Glu Lys Pro Val  Phe Phe Pro
    1010                1015                1020

Ala Phe  Ala Ala Glu Ala Gln  Lys Leu Pro Gly Asp  Pro Pro Cys
    1025                1030                1035

Trp Thr  Ser Gly Leu Pro Phe  Pro Val Pro Pro Arg  Glu Val Ile
    1040                1045                1050

Lys Ala  Ser Pro His Ala Pro  Asp Pro Ser Ala Phe  Ser Tyr Ala
    1055                1060                1065

Pro Pro  Gly His Pro Leu Pro  Leu Gly Leu His Asp  Thr Ala Arg
    1070                1075                1080

Pro Val  Leu Pro Arg Pro Pro  Thr Ile Ser Asn Pro  Pro Pro Leu
    1085                1090                1095

Ile Ser  Ser Ala Lys His Pro  Ser Val Leu Glu Arg  Gln Ile Gly
    1100                1105                1110

Ala Ile  Ser Gln Gly Met Ser  Val Gln Leu His Val  Pro Tyr Ser
    1115                1120                1125

Glu His  Ala Lys Ala Pro Val  Gly Pro Val Thr Met  Gly Leu Pro
    1130                1135                1140

Leu Pro  Met Asp Pro Lys Lys  Leu Ala Pro Phe Ser  Gly Val Lys
    1145                1150                1155

Gln Glu  Gln Leu Ser Pro Arg  Gly Gln Ala Gly Pro  Pro Glu Ser
    1160                1165                1170

Leu Gly  Val Pro Thr Ala Gln  Glu Ala Ser Val Leu  Arg Gly Thr
    1175                1180                1185

Ala Leu  Gly Ser Val Pro Gly  Gly Ser Ile Thr Lys  Gly Ile Pro
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1190 1195 1200

Ser Thr Arg Val Pro Ser Asp Ser Ala Ile Thr Tyr Arg Gly Ser
1205 1210 1215

Ile Thr His Gly Thr Pro Ala Asp Val Leu Tyr Lys Gly Thr Ile
1220 1225 1230

Thr Arg Ile Ile Gly Glu Asp Ser Pro Ser Arg Leu Asp Arg Gly
1235 1240 1245

Arg Glu Asp Ser Leu Pro Lys Gly His Val Ile Tyr Glu Gly Lys
1250 1255 1260

Lys Gly His Val Leu Ser Tyr Glu Gly Gly Met Ser Val Thr Gln
1265 1270 1275

Cys Ser Lys Glu Asp Gly Arg Ser Ser Ser Gly Pro Pro His Glu
1280 1285 1290

Thr Ala Ala Pro Lys Arg Thr Tyr Asp Met Met Glu Gly Arg Val
1295 1300 1305

Gly Arg Ala Ile Ser Ser Ala Ser Ile Glu Gly Leu Met Gly Arg
1310 1315 1320

Ala Ile Pro Pro Glu Arg His Ser Pro His His Leu Lys Glu Gln
1325 1330 1335

His His Ile Arg Gly Ser Ile Thr Gln Gly Ile Pro Arg Ser Tyr
1340 1345 1350

Val Glu Ala Gln Glu Asp Tyr Leu Arg Arg Glu Ala Lys Leu Leu
1355 1360 1365

Lys Arg Glu Gly Thr Pro Pro Pro Pro Pro Pro Ser Arg Asp Leu
1370 1375 1380

Thr Glu Ala Tyr Lys Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys
1385 1390 1395

Pro Ala His Glu Gly Leu Val Ala Thr Val Lys Glu Ala Gly Arg
1400 1405 1410

Ser Ile His Glu Ile Pro Arg Glu Glu Leu Arg His Thr Pro Glu
1415 1420 1425

Leu Pro Leu Ala Pro Arg Pro Leu Lys Glu Gly Ser Ile Thr Gln
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Gly Thr Pro Leu Lys Tyr Asp Thr Gly Ala Ser Thr Thr Gly Ser
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Lys Lys His Asp Val Arg Ser Leu Ile Gly Ser Pro Gly Arg Thr
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Phe Pro Pro Val His Pro Leu Asp Val Met Ala Asp Ala Arg Ala
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Leu Glu Arg Ala Cys Tyr Glu Glu Ser Leu Lys Ser Arg Pro Gly
1490 1495 1500

Thr Ala Ser Ser Ser Gly Gly Ser Ile Ala Arg Gly Ala Pro Val
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Ile Val Pro Glu Leu Gly Lys Pro Arg Gln Ser Pro Leu Thr Tyr
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Glu Asp His Gly Ala Pro Phe Ala Gly His Leu Pro Arg Gly Ser
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Pro Val Thr Met Arg Glu Pro Thr Pro Arg Leu Gln Glu Gly Ser
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Leu Ser Ser Ser Lys Ala Ser Gln Asp Arg Lys Leu Thr Ser Thr
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Pro Arg Glu Ile Ala Lys Ser Pro His Ser Thr Val Pro Glu His
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His Pro His Pro Ile Ser Pro Tyr Glu His Leu Leu Arg Gly Val
1595 1600 1605

Ser Gly Val Asp Leu Tyr Arg Ser His Ile Pro Leu Ala Phe Asp
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Pro Thr Ser Ile Pro Arg Gly Ile Pro Leu Asp Ala Ala Ala Ala
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Tyr Tyr Leu Pro Arg His Leu Ala Pro Asn Pro Thr Tyr Pro His
1640 1645 1650

Leu Tyr Pro Pro Tyr Leu Ile Arg Gly Tyr Pro Asp Thr Ala Ala
1655 1660 1665

Leu Glu Asn Arg Gln Thr Ile Ile Asn Asp Tyr Ile Thr Ser Gln
1670 1675 1680

Gln Met His His Asn Thr Ala Thr Ala Met Ala Gln Arg Ala Asp
1685 1690 1695

Met Leu Arg Gly Leu Ser Pro Arg Glu Ser Ser Leu Ala Leu Asn
1700 1705 1710

Tyr Ala Ala Gly Pro Arg Gly Ile Ile Asp Leu Ser Gln Val Pro
1715 1720 1725

His Leu Pro Val Leu Val Pro Pro Thr Pro Gly Thr Pro Ala Thr
1730 1735 1740

Ala Met Asp Arg Leu Ala Tyr Leu Pro Thr Ala Pro Gln Pro Phe
1745 1750 1755

Ser Ser Arg His Ser Ser Ser Pro Leu Ser Pro Gly Gly Pro Thr
1760 1765 1770

His Leu Thr Lys Pro Thr Thr Thr Ser Ser Ser Glu Arg Glu Arg
1775 1780 1785

Asp Arg Asp Arg Glu Arg Asp Arg Asp Arg Glu Arg Glu Lys Ser
1790 1795 1800

Ile Leu Thr Ser Thr Thr Thr Val Glu His Ala Pro Ile Trp Arg
1805 1810 1815

Pro Gly Thr Glu Gln Ser Ser Gly Ser Ser Gly Ser Ser Gly Gly
1820 1825 1830

Gly Gly Gly Ser Ser Ser Arg Pro Ala Ser His Ser His Ala His
1835 1840 1845

Gln His Ser Pro Ile Ser Pro Arg Thr Gln Asp Ala Leu Gln Gln
1850 1855 1860

Arg Pro Ser Val Leu His Asn Thr Gly Met Lys Gly Ile Ile Thr
1865 1870 1875

Ala Val Glu Pro Ser Lys Pro Thr Val Leu Arg Ser Thr Ser Thr
1880 1885 1890

Ser Ser Pro Val Arg Pro Ala Ala Thr Phe Pro Pro Ala Thr His
1895 1900 1905

Cys Pro Leu Gly Gly Thr Leu Asp Gly Val Tyr Pro Thr Leu Met
1910 1915 1920

Glu Pro Val Leu Leu Pro Lys Glu Ala Pro Arg Val Ala Arg Pro
1925 1930 1935

Glu Arg Pro Arg Ala Asp Thr Gly His Ala Phe Leu Ala Lys Pro
1940 1945 1950

Pro Ala Arg Ser Gly Leu Glu Pro Ala Ser Ser Pro Ser Lys Gly
1955 1960 1965

Ser Glu Pro Arg Pro Leu Val Pro Pro Val Ser Gly His Ala Thr
1970 1975 1980

Ile Ala Arg Thr Pro Ala Lys Asn Leu Ala Pro His His Ala Ser
1985 1990 1995

Pro Asp Pro Pro Ala Pro Pro Ala Ser Ala Ser Asp Pro His Arg
2000 2005 2010

Glu Lys Thr Gln Ser Lys Pro Phe Ser Ile Gln Glu Leu Glu Leu
2015 2020 2025

Arg Ser Leu Gly Tyr His Gly Ser Ser Tyr Ser Pro Glu Gly Val
2030 2035 2040

Glu Pro Val Ser Pro Val Ser Ser Pro Ser Leu Thr His Asp Lys
2045 2050 2055

Gly Leu Pro Lys His Leu Glu Glu Leu Asp Lys Ser His Leu Glu
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Gly Glu Leu Arg Pro Lys Gln Pro Gly Pro Val Lys Leu Gly Gly
2075 2080 2085

Glu Ala Ala His Leu Pro His Leu Arg Pro Leu Pro Glu Ser Gln
2090 2095 2100

Pro Ser Ser Ser Pro Leu Leu Gln Thr Ala Pro Gly Val Lys Gly
2105 2110 2115

His Gln Arg Val Val Thr Leu Ala Gln His Ile Ser Glu Val Ile
2120 2125 2130

Thr Gln Asp Tyr Thr Arg His His Pro Gln Gln Leu Ser Ala Pro
2135 2140 2145

Leu Pro Ala Pro Leu Tyr Ser Phe Pro Gly Ala Ser Cys Pro Val
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Leu Asp Leu Arg Arg Pro Pro Ser Asp Leu Tyr Leu Pro Pro Pro
2165 2170 2175

Asp His Gly Ala Pro Ala Arg Gly Ser Pro His Ser Glu Gly Gly
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Lys Arg Ser Pro Glu Pro Asn Lys Thr Ser Val Leu Gly Gly Gly
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Glu Asp Gly Ile Glu Pro Val Ser Pro Pro Glu Gly Met Thr Glu
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Pro Gly His Ser Arg Ser Ala Val Tyr Pro Leu Leu Tyr Arg Asp
2225 2230 2235

Gly Glu Gln Thr Glu Pro Ser Arg Met Gly Ser Lys Ser Pro Gly
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Asn Thr Ser Gln Pro Pro Ala Phe Phe Ser Lys Leu Thr Glu Ser

2255 2260 2265

Asn Ser Ala Met Val Lys Ser Lys Lys Gln Glu Ile Asn Lys Lys
2270 2275 2280

Leu Asn Thr His Asn Arg Asn Glu Pro Glu Tyr Asn Ile Ser Gln
2285 2290 2295

Pro Gly Thr Glu Ile Phe Asn Met Pro Ala Ile Thr Gly Thr Gly
2300 2305 2310

Leu Met Thr Tyr Arg Ser Gln Ala Val Gln Glu His Ala Ser Thr
2315 2320 2325

Asn Met Gly Leu Glu Ala Ile Ile Arg Lys Ala Leu Met Gly Lys
2330 2335 2340

Tyr Asp Gln Trp Glu Glu Ser Pro Pro Leu Ser Ala Asn Ala Phe
2345 2350 2355

Asn Pro Leu Asn Ala Ser Ala Ser Leu Pro Ala Ala Met Pro Ile
2360 2365 2370

Thr Ala Ala Asp Gly Arg Ser Asp His Thr Leu Thr Ser Pro Gly
2375 2380 2385

Gly Gly Gly Lys Ala Lys Val Ser Gly Arg Pro Ser Ser Arg Lys
2390 2395 2400

Ala Lys Ser Pro Ala Pro Gly Leu Ala Ser Gly Asp Arg Pro Pro
2405 2410 2415

Ser Val Ser Ser Val His Ser Glu Gly Asp Cys Asn Arg Arg Thr
2420 2425 2430

Pro Leu Thr Asn Arg Val Trp Glu Asp Arg Pro Ser Ser Ala Gly
2435 2440 2445

Ser Thr Pro Phe Pro Tyr Asn Pro Leu Ile Met Arg Leu Gln Ala
2450 2455 2460

Gly Val Met Ala Ser Pro Pro Pro Pro Gly Leu Pro Ala Gly Ser
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Gly Pro Leu Ala Gly Pro His His Ala Trp Asp Glu Glu Pro Lys
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Pro Leu Leu Cys Ser Gln Tyr Glu Thr Leu Ser Asp Ser Glu
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ccc cgc tac ccg ccc cac agc ctt tcc tac cca gtg cag atc gcc cgg      97
Pro Arg Tyr Pro Pro His Ser Leu Ser Tyr Pro Val Gln Ile Ala Arg
            20                  25                  30

acg cac acg gac gtc ggg ctc ctg gag tac cag cac cac tcc cgc gac     145
Thr His Thr Asp Val Gly Leu Leu Glu Tyr Gln His His Ser Arg Asp
        35                  40                  45

tat gcc tcc cac ctg tcg ccg ggc tcc atc atc cag ccc cag cgg cgg     193
Tyr Ala Ser His Leu Ser Pro Gly Ser Ile Ile Gln Pro Gln Arg Arg
    50                  55                  60

agg ccc tcc ctg ctg tct gag ttc cag ccc ggg aat gaa cgg tcc cag     241
Arg Pro Ser Leu Leu Ser Glu Phe Gln Pro Gly Asn Glu Arg Ser Gln
65                  70                  75                  80

gag ctc cac ctg cgg cca gag tcc cac tca tac ctg ccc gag ctg ggg     289
Glu Leu His Leu Arg Pro Glu Ser His Ser Tyr Leu Pro Glu Leu Gly
                85                  90                  95

aag tca gag atg gag ttc att gaa agc aag cgc cct cgg cta gag ctg     337
Lys Ser Glu Met Glu Phe Ile Glu Ser Lys Arg Pro Arg Leu Glu Leu
            100                 105                 110

ctg cct gac ccc ctg ctg cga ccg tca ccc ctg ctg gcc acg ggc cag     385
Leu Pro Asp Pro Leu Leu Arg Pro Ser Pro Leu Leu Ala Thr Gly Gln
        115                 120                 125

cct gcg gga tct gaa gac ctc acc aag gac cgt agc ctg acg ggc aag     433
Pro Ala Gly Ser Glu Asp Leu Thr Lys Asp Arg Ser Leu Thr Gly Lys
    130                 135                 140

ctg gaa ccg gtg tct ccc ccc agc ccc ccg cac act gac cct gag ctg     481
Leu Glu Pro Val Ser Pro Pro Ser Pro Pro His Thr Asp Pro Glu Leu
145                 150                 155                 160

gag ctg gtg ccg cca cgg ctg tcc aag gag gag ctg atc cag aac atg     529
Glu Leu Val Pro Pro Arg Leu Ser Lys Glu Glu Leu Ile Gln Asn Met
                165                 170                 175

gac cgc gtg gac cga gag atc acc atg gta gag cag cag atc tct aag     577
Asp Arg Val Asp Arg Glu Ile Thr Met Val Glu Gln Gln Ile Ser Lys
            180                 185                 190

ctg aag aag aag cag caa cag ctg gag gag gag gct gcc aag ccg ccc     625
Leu Lys Lys Lys Gln Gln Gln Leu Glu Glu Glu Ala Ala Lys Pro Pro
        195                 200                 205

gag cct gag aag ccc gtg tca ccg ccg ccc atc gag tcg aag cac cgc     673
Glu Pro Glu Lys Pro Val Ser Pro Pro Pro Ile Glu Ser Lys His Arg
    210                 215                 220

agc ctg gtg cag atc atc tac gac gag aac cgg aag aag gct gaa gct     721
Ser Leu Val Gln Ile Ile Tyr Asp Glu Asn Arg Lys Lys Ala Glu Ala
225                 230                 235                 240

gca cat cgg att ctg gaa ggc ctg ggg ccc cag gtg gag ctg ccg ctg     769
Ala His Arg Ile Leu Glu Gly Leu Gly Pro Gln Val Glu Leu Pro Leu
                245                 250                 255
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tac aac cag ccc tcc gac acc cgg cag tat cat gag aac atc aaa ata      817
Tyr Asn Gln Pro Ser Asp Thr Arg Gln Tyr His Glu Asn Ile Lys Ile
            260                 265                 270

aac cag gcg atg cgg aag aag cta atc ttg tac ttc aag agg agg aat      865
Asn Gln Ala Met Arg Lys Lys Leu Ile Leu Tyr Phe Lys Arg Arg Asn
        275                 280                 285

cac gct cgg aaa caa tgg aag cag aag ttc tgc cag cgc tat gac cag      913
His Ala Arg Lys Gln Trp Lys Gln Lys Phe Cys Gln Arg Tyr Asp Gln
    290                 295                 300

ctc atg gag gcc ttg gaa aaa aag gtg gag cgc atc gaa aac aac ccg      961
Leu Met Glu Ala Leu Glu Lys Lys Val Glu Arg Ile Glu Asn Asn Pro
305                 310                 315                 320

cgc cgg cgg gcc aag gag agc aag gtg cgc gag tac tac gaa aag cag     1009
Arg Arg Arg Ala Lys Glu Ser Lys Val Arg Glu Tyr Tyr Glu Lys Gln
                325                 330                 335

ttc cct gag atc cgc aag cag cgc gag ctg cag gag cgc atg cag agc     1057
Phe Pro Glu Ile Arg Lys Gln Arg Glu Leu Gln Glu Arg Met Gln Ser
            340                 345                 350

agg gtg ggc cag cgg ggc agt ggg ctg tcc atg tcg gcc gcc cgc agc     1105
Arg Val Gly Gln Arg Gly Ser Gly Leu Ser Met Ser Ala Ala Arg Ser
        355                 360                 365

gag cac gag gtg tca gag atc atc gat ggc ctc tca gag cag gag aac     1153
Glu His Glu Val Ser Glu Ile Ile Asp Gly Leu Ser Glu Gln Glu Asn
    370                 375                 380

ctg gag aag cag atg cgc cag ctg gcc gtg atc ccg ccc atg ctg tac     1201
Leu Glu Lys Gln Met Arg Gln Leu Ala Val Ile Pro Pro Met Leu Tyr
385                 390                 395                 400

gac gct gac cag cag cgc atc aag ttc atc aac atg aac ggg ctt atg     1249
Asp Ala Asp Gln Gln Arg Ile Lys Phe Ile Asn Met Asn Gly Leu Met
                405                 410                 415

gcc gac ccc atg aag gtg tac aaa gac cgc cag gtc atg aac atg tgg     1297
Ala Asp Pro Met Lys Val Tyr Lys Asp Arg Gln Val Met Asn Met Trp
            420                 425                 430

agt gag cag gag aag gag acc ttc cgg gag aag ttc atg cag cat ccc     1345
Ser Glu Gln Glu Lys Glu Thr Phe Arg Glu Lys Phe Met Gln His Pro
        435                 440                 445

aag aac ttt ggc ctg atc gca tca ttc ctg gag agg aag aca gtg gct     1393
Lys Asn Phe Gly Leu Ile Ala Ser Phe Leu Glu Arg Lys Thr Val Ala
    450                 455                 460

gag tgc gtc ctc tat tac tac ctg act aag aag aat gag aac tat aag     1441
Glu Cys Val Leu Tyr Tyr Tyr Leu Thr Lys Lys Asn Glu Asn Tyr Lys
465                 470                 475                 480

agc ctg gtg aga cgg agc tat cgg cgc cgc ggc aag agc cag cag caa     1489
Ser Leu Val Arg Arg Ser Tyr Arg Arg Arg Gly Lys Ser Gln Gln Gln
                485                 490                 495

caa cag cag cag cag cag cag cag cag cag cag cag cag cag ccc atg     1537
Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Pro Met
            500                 505                 510

ccc cgc agc agc cag gag gag aaa gat gag aag gag aag gaa aag gag     1585
Pro Arg Ser Ser Gln Glu Glu Lys Asp Glu Lys Glu Lys Glu Lys Glu
        515                 520                 525

gcg gag aag gag gag gag aag ccg gag gtg gag aac gac aag gaa gac     1633
Ala Glu Lys Glu Glu Glu Lys Pro Glu Val Glu Asn Asp Lys Glu Asp
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    530                 535                 540

ctc ctc aag gag aag aca gac gac acc tca ggg gag gac aac gac gag      1681
Leu Leu Lys Glu Lys Thr Asp Asp Thr Ser Gly Glu Asp Asn Asp Glu
545                 550                 555                 560

aag gag gct gtg gcc tcc aaa ggc cgc aaa act gcc aac agc cag gga      1729
Lys Glu Ala Val Ala Ser Lys Gly Arg Lys Thr Ala Asn Ser Gln Gly
                565                 570                 575

aga cgc aaa ggc cgc atc acc cgc tca atg gct aat gag gcc aac agc      1777
Arg Arg Lys Gly Arg Ile Thr Arg Ser Met Ala Asn Glu Ala Asn Ser
            580                 585                 590

gag gag gcc atc acc ccc cag cag agc gcc gag ctg gcc tcc atg gag      1825
Glu Glu Ala Ile Thr Pro Gln Gln Ser Ala Glu Leu Ala Ser Met Glu
        595                 600                 605

ctg aat gag agt tct cgc tgg aca gaa gaa gaa atg gaa aca gcc aag      1873
Leu Asn Glu Ser Ser Arg Trp Thr Glu Glu Glu Met Glu Thr Ala Lys
    610                 615                 620

aaa ggt ctc ctg gaa cac ggc cgc aac tgg tcg gcc atc gcc cgg atg      1921
Lys Gly Leu Leu Glu His Gly Arg Asn Trp Ser Ala Ile Ala Arg Met
625                 630                 635                 640

gtg ggc tcc aag act gtg tcg cag tgt aag aac ttc tac ttc aac tac      1969
Val Gly Ser Lys Thr Val Ser Gln Cys Lys Asn Phe Tyr Phe Asn Tyr
                645                 650                 655

aag aag agg cag aac ctc gat gag atc ttg cag cag cac aag ctg aag      2017
Lys Lys Arg Gln Asn Leu Asp Glu Ile Leu Gln Gln His Lys Leu Lys
            660                 665                 670

atg gag aag gag agg aac gcg cgg agg aag aag aag aaa gcg ccg gcg      2065
Met Glu Lys Glu Arg Asn Ala Arg Arg Lys Lys Lys Lys Ala Pro Ala
        675                 680                 685

gcg gcc agc gag gag gct gca ttc ccg ccc gtg gtg gag gat gag gag      2113
Ala Ala Ser Glu Glu Ala Ala Phe Pro Pro Val Val Glu Asp Glu Glu
    690                 695                 700

atg gag gcg tcg ggc gtg agc gga aat gag gag gag atg gtg gag gag      2161
Met Glu Ala Ser Gly Val Ser Gly Asn Glu Glu Glu Met Val Glu Glu
705                 710                 715                 720

gct gaa gcc tta cat gcc tct ggg aat gag gtg ccc aga ggg gaa tgc      2209
Ala Glu Ala Leu His Ala Ser Gly Asn Glu Val Pro Arg Gly Glu Cys
                725                 730                 735

agt ggc cca gcc act gtc aac aac agc tca gac acc gag agc atc ccc      2257
Ser Gly Pro Ala Thr Val Asn Asn Ser Ser Asp Thr Glu Ser Ile Pro
            740                 745                 750

tct cct cac act gag gcc gcc aag gac aca ggg cag aat ggg ccc aag      2305
Ser Pro His Thr Glu Ala Ala Lys Asp Thr Gly Gln Asn Gly Pro Lys
        755                 760                 765

ccc cca gcc acc ctg ggc gcc gac ggg cca ccc cca ggc cca ccc acc      2353
Pro Pro Ala Thr Leu Gly Ala Asp Gly Pro Pro Pro Gly Pro Pro Thr
    770                 775                 780

cca cca cgg agg aca tcc cgg gcc ccc att gag ccc acc ccg gcc tct      2401
Pro Pro Arg Arg Thr Ser Arg Ala Pro Ile Glu Pro Thr Pro Ala Ser
785                 790                 795                 800

gaa gcc acc gga gcc cct acg ccc cca cca gca ccc cca tcg ccc tct      2449
Glu Ala Thr Gly Ala Pro Thr Pro Pro Pro Ala Pro Pro Ser Pro Ser
                805                 810                 815

gca cct cct cct gtg gtc ccc aag gag gag aag gag gag gag acc gca      2497
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Ala Pro Pro Pro Val Val Pro Lys Glu Glu Lys Glu Glu Glu Thr Ala
            820                 825                 830

gca gcg ccc cca gtg gag gag ggg gag gag cag aag ccc ccc gcg gct     2545
Ala Ala Pro Pro Val Glu Glu Gly Glu Glu Gln Lys Pro Pro Ala Ala
        835                 840                 845

gag gag ctg gca gtg gac aca ggg aag gcc gag gag ccc gtc aag agc     2593
Glu Glu Leu Ala Val Asp Thr Gly Lys Ala Glu Glu Pro Val Lys Ser
    850                 855                 860

gag tgc acg gag gaa gcc gag gag ggg ccg gcc aag ggc aag gac gcg     2641
Glu Cys Thr Glu Glu Ala Glu Glu Gly Pro Ala Lys Gly Lys Asp Ala
865                 870                 875                 880

gag gcc gct gag gcc acg gcc gag ggg gcg ctc aag gca gag aag aag     2689
Glu Ala Ala Glu Ala Thr Ala Glu Gly Ala Leu Lys Ala Glu Lys Lys
                885                 890                 895

gag ggc ggg agc ggc agg gcc acc act gcc aag agc tcg ggc gcc ccc     2737
Glu Gly Gly Ser Gly Arg Ala Thr Thr Ala Lys Ser Ser Gly Ala Pro
            900                 905                 910

cag gac agc gac tcc agt gct acc tgc agt gca gac gag gtg gat gag     2785
Gln Asp Ser Asp Ser Ser Ala Thr Cys Ser Ala Asp Glu Val Asp Glu
        915                 920                 925

gcc gag ggc ggc gac aag aac cgg ctg ctg tcc cca agg ccc agc ctc     2833
Ala Glu Gly Gly Asp Lys Asn Arg Leu Leu Ser Pro Arg Pro Ser Leu
    930                 935                 940

ctc acc ccg act ggc gac ccc cgg gcc aat gcc tca ccc cag aag cca     2881
Leu Thr Pro Thr Gly Asp Pro Arg Ala Asn Ala Ser Pro Gln Lys Pro
945                 950                 955                 960

ctg gac ctg aag cag ctg aag cag cga gcg gct gcc atc ccc ccc atc     2929
Leu Asp Leu Lys Gln Leu Lys Gln Arg Ala Ala Ala Ile Pro Pro Ile
                965                 970                 975

cag gtc acc aaa gtc cat gag ccc ccc cgg gag gac gca gct ccc acc     2977
Gln Val Thr Lys Val His Glu Pro Pro Arg Glu Asp Ala Ala Pro Thr
            980                 985                 990

aag cca gct ccc cca gcc cca ccg  cca ccg caa aac ctg  cag ccg gag   3025
Lys Pro Ala Pro Pro Ala Pro Pro  Pro Pro Gln Asn Leu  Gln Pro Glu
        995                 1000                1005

agc gac  gcc cct cag cag cct  ggc agc agc ccc cgg  ggc aag agc      3070
Ser Asp  Ala Pro Gln Gln Pro  Gly Ser Ser Pro Arg  Gly Lys Ser
    1010                1015                1020

agg agc  ccg gca ccc ccc gcc  gac aag gag gcc ttc  gca gcc gag      3115
Arg Ser  Pro Ala Pro Pro Ala  Asp Lys Glu Ala Phe  Ala Ala Glu
    1025                1030                1035

gcc cag  aag ctg cct ggg gac  ccc cct tgc tgg act  tcc ggc ctg      3160
Ala Gln  Lys Leu Pro Gly Asp  Pro Pro Cys Trp Thr  Ser Gly Leu
    1040                1045                1050

ccc ttc  ccc gtg ccc ccc cgt  gag gtg atc aag gcc  tcc ccg cat      3205
Pro Phe  Pro Val Pro Pro Arg  Glu Val Ile Lys Ala  Ser Pro His
    1055                1060                1065

gcc ccg  gac ccc tca gcc ttc  tcc tac gct cca cct  ggt cac cca      3250
Ala Pro  Asp Pro Ser Ala Phe  Ser Tyr Ala Pro Pro  Gly His Pro
    1070                1075                1080

ctg ccc  ctg ggc ctc cat gac  act gcc cgg ccc gtc  ctg ccg cgc      3295
Leu Pro  Leu Gly Leu His Asp  Thr Ala Arg Pro Val  Leu Pro Arg
    1085                1090                1095
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cca ccc  acc atc tcc aac ccg  cct ccc ctc atc tcc  tct gcc aag      3340
Pro Pro  Thr Ile Ser Asn Pro  Pro Pro Leu Ile Ser  Ser Ala Lys
    1100                 1105                 1110

cac ccc  agc gtc ctc gag agg  caa ata ggt gcc atc  tcc caa gga      3385
His Pro  Ser Val Leu Glu Arg  Gln Ile Gly Ala Ile  Ser Gln Gly
    1115                 1120                 1125

atg tcg  gtc cag ctc cac gtc  ccg tac tca gag cat  gcc aag gcc      3430
Met Ser  Val Gln Leu His Val  Pro Tyr Ser Glu His  Ala Lys Ala
    1130                 1135                 1140

ccg gtg  ggc cct gtc acc atg  ggg ctg ccc ctg ccc  atg gac ccc      3475
Pro Val  Gly Pro Val Thr Met  Gly Leu Pro Leu Pro  Met Asp Pro
    1145                 1150                 1155

aaa aag  ctg gca ccc ttc agc  gga gtg aag cag gag  cag ctg tcc      3520
Lys Lys  Leu Ala Pro Phe Ser  Gly Val Lys Gln Glu  Gln Leu Ser
    1160                 1165                 1170

cca cgg  ggc cag gct ggg cca  ccg gag agc ctg ggg  gtg ccc aca      3565
Pro Arg  Gly Gln Ala Gly Pro  Pro Glu Ser Leu Gly  Val Pro Thr
    1175                 1180                 1185

gcc cag  gag gcg tcc gtg ctg  aga ggg aca gct ctg  ggc tca gtt      3610
Ala Gln  Glu Ala Ser Val Leu  Arg Gly Thr Ala Leu  Gly Ser Val
    1190                 1195                 1200

ccg ggc  gga agc atc acc aaa  ggc att ccc agc aca  cgg gtg ccc      3655
Pro Gly  Gly Ser Ile Thr Lys  Gly Ile Pro Ser Thr  Arg Val Pro
    1205                 1210                 1215

tcg gac  agc gcc atc aca tac  cgc ggc tcc atc acc  cac ggc acg      3700
Ser Asp  Ser Ala Ile Thr Tyr  Arg Gly Ser Ile Thr  His Gly Thr
    1220                 1225                 1230

cca gct  gac gtc ctg tac aag  ggc acc atc acc agg  atc atc ggc      3745
Pro Ala  Asp Val Leu Tyr Lys  Gly Thr Ile Thr Arg  Ile Ile Gly
    1235                 1240                 1245

gag gac  agc ccg agt cgc ttg  gac cgc ggc cgg gag  gac agc ctg      3790
Glu Asp  Ser Pro Ser Arg Leu  Asp Arg Gly Arg Glu  Asp Ser Leu
    1250                 1255                 1260

ccc aag  ggc cac gtc atc tac  gaa ggc aag aag ggc  cac gtc ttg      3835
Pro Lys  Gly His Val Ile Tyr  Glu Gly Lys Lys Gly  His Val Leu
    1265                 1270                 1275

tcc tat  gag ggt ggc atg tct  gtg acc cag tgc tcc  aag gag gac      3880
Ser Tyr  Glu Gly Gly Met Ser  Val Thr Gln Cys Ser  Lys Glu Asp
    1280                 1285                 1290

ggc aga  agc agc tca gga ccc  ccc cat gag acg gcc  gcc ccc aag      3925
Gly Arg  Ser Ser Ser Gly Pro  Pro His Glu Thr Ala  Ala Pro Lys
    1295                 1300                 1305

cgc acc  tat gac atg atg gag  ggc cgc gtg ggc aga  gcc atc tcc      3970
Arg Thr  Tyr Asp Met Met Glu  Gly Arg Val Gly Arg  Ala Ile Ser
    1310                 1315                 1320

tca gcc  agc atc gaa ggt ctc  atg ggc cgt gcc atc  ccg ccg gag      4015
Ser Ala  Ser Ile Glu Gly Leu  Met Gly Arg Ala Ile  Pro Pro Glu
    1325                 1330                 1335

cga cac  agc ccc cac cac ctc  aaa gag cag cac cac  atc cgc ggg      4060
Arg His  Ser Pro His His Leu  Lys Glu Gln His His  Ile Arg Gly
    1340                 1345                 1350

tcc atc  aca caa ggg atc cct  cgg tcc tac gtg gag  gca cag gag      4105
Ser Ile  Thr Gln Gly Ile Pro  Arg Ser Tyr Val Glu  Ala Gln Glu
    1355                 1360                 1365
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gac tac  ctg cgt cgg gag gcc  aag ctc cta aag cgg  gag ggc acg      4150
Asp Tyr  Leu Arg Arg Glu Ala  Lys Leu Leu Lys Arg  Glu Gly Thr
    1370                 1375                 1380

cct ccg  ccc cca ccg ccc tca  cgg gac ctg acc gag  gcc tac aag      4195
Pro Pro  Pro Pro Pro Pro Ser  Arg Asp Leu Thr Glu  Ala Tyr Lys
    1385                 1390                 1395

acg cag  gcc ctg ggc ccc ctg  aag ctg aag ccg gcc  cat gag ggc      4240
Thr Gln  Ala Leu Gly Pro Leu  Lys Leu Lys Pro Ala  His Glu Gly
    1400                 1405                 1410

ctg gtg  gcc acg gtg aag gag  gcg ggc cgc tcc atc  cat gag atc      4285
Leu Val  Ala Thr Val Lys Glu  Ala Gly Arg Ser Ile  His Glu Ile
    1415                 1420                 1425

ccg cgc  gag gag ctg cgg cac  acg ccc gag ctg ccc  ctg gcc ccg      4330
Pro Arg  Glu Glu Leu Arg His  Thr Pro Glu Leu Pro  Leu Ala Pro
    1430                 1435                 1440

cgg ccg  ctc aag gag ggc tcc  atc acg cag ggc acc  ccg ctc aag      4375
Arg Pro  Leu Lys Glu Gly Ser  Ile Thr Gln Gly Thr  Pro Leu Lys
    1445                 1450                 1455

tac gac  acc ggc gcg tcc acc  act ggc tcc aaa aag  cac gac gta      4420
Tyr Asp  Thr Gly Ala Ser Thr  Thr Gly Ser Lys Lys  His Asp Val
    1460                 1465                 1470

cgc tcc  ctc atc ggc agc ccc  ggc cgg acg ttc cca  ccc gtg cac      4465
Arg Ser  Leu Ile Gly Ser Pro  Gly Arg Thr Phe Pro  Pro Val His
    1475                 1480                 1485

ccg ctg  gat gtg atg gcc gac  gcc cgg gca ctg gaa  cgt gcc tgc      4510
Pro Leu  Asp Val Met Ala Asp  Ala Arg Ala Leu Glu  Arg Ala Cys
    1490                 1495                 1500

tac gag  gag agc ctg aag agc  cgg cca ggg acc gcc  agc agc tcg      4555
Tyr Glu  Glu Ser Leu Lys Ser  Arg Pro Gly Thr Ala  Ser Ser Ser
    1505                 1510                 1515

ggg ggc  tcc att gcg cgc ggc  gcc ccg gtc att gtg  cct gag ctg      4600
Gly Gly  Ser Ile Ala Arg Gly  Ala Pro Val Ile Val  Pro Glu Leu
    1520                 1525                 1530

ggt aag  ccg cgg cag agc ccc  ctg acc tat gag gac  cac ggg gca      4645
Gly Lys  Pro Arg Gln Ser Pro  Leu Thr Tyr Glu Asp  His Gly Ala
    1535                 1540                 1545

ccc ttt  gcc ggc cac ctc cca  cga ggt tcg ccc gtg  acc atg cgg      4690
Pro Phe  Ala Gly His Leu Pro  Arg Gly Ser Pro Val  Thr Met Arg
    1550                 1555                 1560

gag ccc  acg ccg cgc ctg cag  gag ggc agc ctt tcg  tcc agc aag      4735
Glu Pro  Thr Pro Arg Leu Gln  Glu Gly Ser Leu Ser  Ser Ser Lys
    1565                 1570                 1575

gca tcc  cag gac cga aag ctg  acg tcg acg cct cgt  gag atc gcc      4780
Ala Ser  Gln Asp Arg Lys Leu  Thr Ser Thr Pro Arg  Glu Ile Ala
    1580                 1585                 1590

aag tcc  ccg cac agc acc gtg  ccc gag cac cac cca  cac ccc atc      4825
Lys Ser  Pro His Ser Thr Val  Pro Glu His His Pro  His Pro Ile
    1595                 1600                 1605

tcg ccc  tat gag cac ctg ctt  cgg ggc gtg agt ggc  gtg gac ctg      4870
Ser Pro  Tyr Glu His Leu Leu  Arg Gly Val Ser Gly  Val Asp Leu
    1610                 1615                 1620

tat cgc  agc cac atc ccc ctg  gcc ttc gac ccc acc  tcc ata ccc      4915
Tyr Arg  Ser His Ile Pro Leu  Ala Phe Asp Pro Thr  Ser Ile Pro
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    1625                1630                1635

cgc ggc  atc cct ctg gac gca  gcc gct gcc tac tac  ctg ccc cga      4960
Arg Gly  Ile Pro Leu Asp Ala  Ala Ala Ala Tyr Tyr  Leu Pro Arg
    1640                1645                1650

cac ctg  gcc ccc aac ccc acc  tac ccg cac ctg tac  cca ccc tac      5005
His Leu  Ala Pro Asn Pro Thr  Tyr Pro His Leu Tyr  Pro Pro Tyr
    1655                1660                1665

ctc atc  cgc ggc tac ccc gac  acg gcg gcg ctg gag  aac cgg cag      5050
Leu Ile  Arg Gly Tyr Pro Asp  Thr Ala Ala Leu Glu  Asn Arg Gln
    1670                1675                1680

acc atc  atc aat gac tac atc  acc tcg cag cag atg  cac cac aac      5095
Thr Ile  Ile Asn Asp Tyr Ile  Thr Ser Gln Gln Met  His His Asn
    1685                1690                1695

acg gcc  acc gcc atg gcc cag  cga gct gat atg ctg  agg ggc ctc      5140
Thr Ala  Thr Ala Met Ala Gln  Arg Ala Asp Met Leu  Arg Gly Leu
    1700                1705                1710

tcg ccc  cgc gag tcc tcg ctg  gca ctc aac tac gct  gcg ggt ccc      5185
Ser Pro  Arg Glu Ser Ser Leu  Ala Leu Asn Tyr Ala  Ala Gly Pro
    1715                1720                1725

cga ggc  atc atc gac ctg tcc  caa gtg cca cac ctg  cct gtg ctc      5230
Arg Gly  Ile Ile Asp Leu Ser  Gln Val Pro His Leu  Pro Val Leu
    1730                1735                1740

gtg ccc  ccg aca cca ggc acc  cca gcc acc gcc atg  gac cgc ctt      5275
Val Pro  Pro Thr Pro Gly Thr  Pro Ala Thr Ala Met  Asp Arg Leu
    1745                1750                1755

gcc tac  ctc ccc acc gcg ccc  cag ccc ttc agc agc  cgc cac agc      5320
Ala Tyr  Leu Pro Thr Ala Pro  Gln Pro Phe Ser Ser  Arg His Ser
    1760                1765                1770

agc tcc  cca ctc tcc cca gga  ggt cca aca cac ttg  aca aaa cca      5365
Ser Ser  Pro Leu Ser Pro Gly  Gly Pro Thr His Leu  Thr Lys Pro
    1775                1780                1785

acc acc  acg tcc tcg tcc gag  cgg gag cga gac cgg  gat cga gag      5410
Thr Thr  Thr Ser Ser Ser Glu  Arg Glu Arg Asp Arg  Asp Arg Glu
    1790                1795                1800

cgg gac  cgg gat cgg gag cgg  gaa aag tcc atc ctc  acg tcc acc      5455
Arg Asp  Arg Asp Arg Glu Arg  Glu Lys Ser Ile Leu  Thr Ser Thr
    1805                1810                1815

acg acg  gtg gag cac gca ccc  atc tgg aga cct ggt  aca gag cag      5500
Thr Thr  Val Glu His Ala Pro  Ile Trp Arg Pro Gly  Thr Glu Gln
    1820                1825                1830

agc agc  ggc agc agc ggc agc  agc ggc ggg ggt ggg  ggc agc agc      5545
Ser Ser  Gly Ser Ser Gly Ser  Ser Gly Gly Gly Gly  Gly Ser Ser
    1835                1840                1845

agc cgc  ccc gcc tcc cac tcc  cat gcc cac cag cac  tcg ccc atc      5590
Ser Arg  Pro Ala Ser His Ser  His Ala His Gln His  Ser Pro Ile
    1850                1855                1860

tcc cct  cgg acc cag gat gcc  ctc cag cag aga ccc  agt gtg ctt      5635
Ser Pro  Arg Thr Gln Asp Ala  Leu Gln Gln Arg Pro  Ser Val Leu
    1865                1870                1875

cac aac  aca ggc atg aag ggt  atc atc acc gct gtg  gag ccc agc      5680
His Asn  Thr Gly Met Lys Gly  Ile Ile Thr Ala Val  Glu Pro Ser
    1880                1885                1890

aag ccc  acg gtc ctg agg tcc  acc tcc acc tcc tca  ccc gtt cgc      5725
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Lys Pro  Thr Val Leu Arg Ser  Thr Ser Thr Ser Ser  Pro Val Arg
    1895                 1900                 1905

cca gct  gcc aca ttc cca cct  gcc acc cac tgc cca  ctg ggc ggc      5770
Pro Ala  Ala Thr Phe Pro Pro  Ala Thr His Cys Pro  Leu Gly Gly
    1910                 1915                 1920

acc ctc  gat ggg gtc tac cct  acc ctc atg gag ccc  gtc ttg ctg      5815
Thr Leu  Asp Gly Val Tyr Pro  Thr Leu Met Glu Pro  Val Leu Leu
    1925                 1930                 1935

ccc aag  gag gcc ccc cgg gtc  gcc cgg cca gag cgg  ccc cga gca      5860
Pro Lys  Glu Ala Pro Arg Val  Ala Arg Pro Glu Arg  Pro Arg Ala
    1940                 1945                 1950

gac acc  ggc cat gcc ttc ctc  gcc aag ccc cca gcc  cgc tcc ggg      5905
Asp Thr  Gly His Ala Phe Leu  Ala Lys Pro Pro Ala  Arg Ser Gly
    1955                 1960                 1965

ctg gag  ccc gcc tcc tcc ccc  agc aag ggc tcg gag  ccc cgg ccc      5950
Leu Glu  Pro Ala Ser Ser Pro  Ser Lys Gly Ser Glu  Pro Arg Pro
    1970                 1975                 1980

cta gtg  cct cct gtc tct ggc  cac gcc acc atc gcc  cgc acc cct      5995
Leu Val  Pro Pro Val Ser Gly  His Ala Thr Ile Ala  Arg Thr Pro
    1985                 1990                 1995

gcg aag  aac ctc gca cct cac  cac gcc agc ccg gac  ccg ccg gcg      6040
Ala Lys  Asn Leu Ala Pro His  His Ala Ser Pro Asp  Pro Pro Ala
    2000                 2005                 2010

cca cct  gcc tcg gcc tcg gac  ccg cac cgg gaa aag  act caa agt      6085
Pro Pro  Ala Ser Ala Ser Asp  Pro His Arg Glu Lys  Thr Gln Ser
    2015                 2020                 2025

aaa ccc  ttt tcc atc cag gaa  ctg gaa ctc cgt tct  ctg ggt tac      6130
Lys Pro  Phe Ser Ile Gln Glu  Leu Glu Leu Arg Ser  Leu Gly Tyr
    2030                 2035                 2040

cac ggc  agc agc tac agc ccc  gaa ggg gtg gag ccc  gtc agc cct      6175
His Gly  Ser Ser Tyr Ser Pro  Glu Gly Val Glu Pro  Val Ser Pro
    2045                 2050                 2055

gtg agc  tca ccc agt ctg acc  cac gac aag ggg ctc  ccc aag cac      6220
Val Ser  Ser Pro Ser Leu Thr  His Asp Lys Gly Leu  Pro Lys His
    2060                 2065                 2070

ctg gaa  gag ctc gac aag agc  cac ctg gag ggg gag  ctg cgg ccc      6265
Leu Glu  Glu Leu Asp Lys Ser  His Leu Glu Gly Glu  Leu Arg Pro
    2075                 2080                 2085

aag cag  cca ggc ccc gtg aag  ctt ggc ggg gag gcc  gcc cac ctc      6310
Lys Gln  Pro Gly Pro Val Lys  Leu Gly Gly Glu Ala  Ala His Leu
    2090                 2095                 2100

cca cac  ctg cgg ccg ctg cct  gag agc cag ccc tcg  tcc agc ccg      6355
Pro His  Leu Arg Pro Leu Pro  Glu Ser Gln Pro Ser  Ser Ser Pro
    2105                 2110                 2115

ctg ctc  cag acc gcc cca ggg  gtc aaa ggt cac cag  cgg gtg gtc      6400
Leu Leu  Gln Thr Ala Pro Gly  Val Lys Gly His Gln  Arg Val Val
    2120                 2125                 2130

acc ctg  gcc cag cac atc agt  gag gtc atc aca cag  gac tac acc      6445
Thr Leu  Ala Gln His Ile Ser  Glu Val Ile Thr Gln  Asp Tyr Thr
    2135                 2140                 2145

cgg cac  cac cca cag cag ctc  agc gca ccc ctg ccc  gcc ccc ctc      6490
Arg His  His Pro Gln Gln Leu  Ser Ala Pro Leu Pro  Ala Pro Leu
    2150                 2155                 2160
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tac tcc  ttc cct ggg gcc agc  tgc ccc gtc ctg gac  ctc cgc cgc      6535
Tyr Ser  Phe Pro Gly Ala Ser  Cys Pro Val Leu Asp  Leu Arg Arg
    2165                 2170                 2175

cca ccc  agt gac ctc tac ctc  ccg ccc ccg gac cat  ggt gcc ccg      6580
Pro Pro  Ser Asp Leu Tyr Leu  Pro Pro Pro Asp His  Gly Ala Pro
    2180                 2185                 2190

gcc cgt  ggc tcc ccc cac agc  gaa ggg ggc aag agg  tct cca gag      6625
Ala Arg  Gly Ser Pro His Ser  Glu Gly Gly Lys Arg  Ser Pro Glu
    2195                 2200                 2205

cca aac  aag acg tcg gtc ttg  ggt ggt ggt gag gac  ggt att gaa      6670
Pro Asn  Lys Thr Ser Val Leu  Gly Gly Gly Glu Asp  Gly Ile Glu
    2210                 2215                 2220

cct gtg  tcc cca ccg gag ggc  atg acg gag cca ggg  cac tcc cgg      6715
Pro Val  Ser Pro Pro Glu Gly  Met Thr Glu Pro Gly  His Ser Arg
    2225                 2230                 2235

agt gct  gtg tac ccg ctg ctg  tac cgg gat ggg gaa  cag acg gag      6760
Ser Ala  Val Tyr Pro Leu Leu  Tyr Arg Asp Gly Glu  Gln Thr Glu
    2240                 2245                 2250

ccc agc  agg atg ggc tcc aag  tct cca ggc aac acc  agc cag ccg      6805
Pro Ser  Arg Met Gly Ser Lys  Ser Pro Gly Asn Thr  Ser Gln Pro
    2255                 2260                 2265

cca gcc  ttc ttc agc aag ctg  acc gag agc aac tcc  gcc atg gtc      6850
Pro Ala  Phe Phe Ser Lys Leu  Thr Glu Ser Asn Ser  Ala Met Val
    2270                 2275                 2280

aag tcc  aag aag caa gag atc  aac aag aag ctg aac  acc cac aac      6895
Lys Ser  Lys Lys Gln Glu Ile  Asn Lys Lys Leu Asn  Thr His Asn
    2285                 2290                 2295

cgg aat  gag cct gaa tac aat  atc agc cag cct ggg  acg gag atc      6940
Arg Asn  Glu Pro Glu Tyr Asn  Ile Ser Gln Pro Gly  Thr Glu Ile
    2300                 2305                 2310

ttc aat  atg ccc gcc atc acc  gga aca ggc ctt atg  acc tat aga      6985
Phe Asn  Met Pro Ala Ile Thr  Gly Thr Gly Leu Met  Thr Tyr Arg
    2315                 2320                 2325

agc cag  gcg gtg cag gaa cat  gcc agc acc aac atg  ggg ctg gag      7030
Ser Gln  Ala Val Gln Glu His  Ala Ser Thr Asn Met  Gly Leu Glu
    2330                 2335                 2340

gcc ata  att aga aag gca ctc  atg ggt aaa tat gac  cag tgg gaa      7075
Ala Ile  Ile Arg Lys Ala Leu  Met Gly Lys Tyr Asp  Gln Trp Glu
    2345                 2350                 2355

gag tcc  ccg ccg ctc agc gcc  aat gct ttt aac cct  ctg aat gcc      7120
Glu Ser  Pro Pro Leu Ser Ala  Asn Ala Phe Asn Pro  Leu Asn Ala
    2360                 2365                 2370

agt gcc  agc ctg ccc gct gct  atg ccc ata acc gct  gct gac gga      7165
Ser Ala  Ser Leu Pro Ala Ala  Met Pro Ile Thr Ala  Ala Asp Gly
    2375                 2380                 2385

cgg agt  gac cac aca ctc acc  tcg cca ggt ggc ggc  ggg aag gcc      7210
Arg Ser  Asp His Thr Leu Thr  Ser Pro Gly Gly Gly  Gly Lys Ala
    2390                 2395                 2400

aag gtc  tct ggc aga ccc agc  agc cga aaa gcc aag  tcc ccg gcc      7255
Lys Val  Ser Gly Arg Pro Ser  Ser Arg Lys Ala Lys  Ser Pro Ala
    2405                 2410                 2415

ccg ggc  ctg gca tct ggg gac  cgg cca ccc tct gtc  tcc tca gtg      7300
Pro Gly  Leu Ala Ser Gly Asp  Arg Pro Pro Ser Val  Ser Ser Val
    2420                 2425                 2430
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cac tcg  gag gga gac tgc aac  cgc cgg acg ccg ctc  acc aac cgc      7345
His Ser  Glu Gly Asp Cys Asn  Arg Arg Thr Pro Leu  Thr Asn Arg
    2435                 2440                 2445

gtg tgg  gag gac agg ccc tcg  tcc gca ggt tcc acg  cca ttc ccc      7390
Val Trp  Glu Asp Arg Pro Ser  Ser Ala Gly Ser Thr  Pro Phe Pro
    2450                 2455                 2460

tac aac  ccc ctg atc atg cgg  ctg cag gcg ggt gtc  atg gct tcc      7435
Tyr Asn  Pro Leu Ile Met Arg  Leu Gln Ala Gly Val  Met Ala Ser
    2465                 2470                 2475

cca ccc  cca ccg ggc ctc ccc  gcg ggc agc ggg ccc  ctc gct ggc      7480
Pro Pro  Pro Pro Gly Leu Pro  Ala Gly Ser Gly Pro  Leu Ala Gly
    2480                 2485                 2490

ccc cac  cac gcc tgg gac gag  gag ccc aag cca ctg  ctc tgc tcg      7525
Pro His  His Ala Trp Asp Glu  Glu Pro Lys Pro Leu  Leu Cys Ser
    2495                 2500                 2505

cag tac  gag aca ctc tcc gac  agc gag tga ctcagaacag ggcgggggg     7575
Gln Tyr  Glu Thr Leu Ser Asp  Ser Glu
    2510                 2515

ggcgggcggt gtcaggtccc agcgagccac aggaacggcc ctgcaggagc ggggcggctg  7635

ccgactcccc caaccaagga aggagcccct gagtccgcct gcgcctccat ccatctgtcc  7695

gtccagagcc ggcatccttg cctgtctaaa gccttaacta agactcccgc cccgggctgg  7755

ccctgtgcag accttactca ggggatgttt acctggtgct cgggaaggga ggggaagggg  7815

ccggggaggg ggcacggcag gcgtgtggca gccacacaca ggcggccagg gcggccaggg  7875

acccaaagca ggatgaccac gcacctccac gccactgcct cccccgaatg catttggaac  7935

caaagtctaa actgagctcg cagcccccgc gccctccctc cgcctcccat cccgcttagc  7995

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tgtcctccct ccctcccttc cttgggcaga atgaattcga tgcgtattct gtggccgcca  8475

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<212> PRT
<213> Homo sapiens

<400> 13

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Pro Arg Tyr Pro Pro His Ser Leu Ser Tyr Pro Val Gln Ile Ala Arg
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Thr His Thr Asp Val Gly Leu Leu Glu Tyr Gln His His Ser Arg Asp
35 40 45

Tyr Ala Ser His Leu Ser Pro Gly Ser Ile Ile Gln Pro Gln Arg Arg
50 55 60

Arg Pro Ser Leu Leu Ser Glu Phe Gln Pro Gly Asn Glu Arg Ser Gln
65 70 75 80

Glu Leu His Leu Arg Pro Glu Ser His Ser Tyr Leu Pro Glu Leu Gly
85 90 95

Lys Ser Glu Met Glu Phe Ile Glu Ser Lys Arg Pro Arg Leu Glu Leu
100 105 110

Leu Pro Asp Pro Leu Leu Arg Pro Ser Pro Leu Leu Ala Thr Gly Gln
115 120 125

Pro Ala Gly Ser Glu Asp Leu Thr Lys Asp Arg Ser Leu Thr Gly Lys
130 135 140

Leu Glu Pro Val Ser Pro Pro Ser Pro Pro His Thr Asp Pro Glu Leu
145 150 155 160

Glu Leu Val Pro Pro Arg Leu Ser Lys Glu Glu Leu Ile Gln Asn Met
165 170 175

Asp Arg Val Asp Arg Glu Ile Thr Met Val Glu Gln Gln Ile Ser Lys
180 185 190

Leu Lys Lys Lys Gln Gln Gln Leu Glu Glu Glu Ala Ala Lys Pro Pro
195 200 205

Glu Pro Glu Lys Pro Val Ser Pro Pro Pro Ile Glu Ser Lys His Arg
210 215 220

Ser Leu Val Gln Ile Ile Tyr Asp Glu Asn Arg Lys Lys Ala Glu Ala
225 230 235 240

Ala His Arg Ile Leu Glu Gly Leu Gly Pro Gln Val Glu Leu Pro Leu
245 250 255

Tyr Asn Gln Pro Ser Asp Thr Arg Gln Tyr His Glu Asn Ile Lys Ile
260 265 270

Asn Gln Ala Met Arg Lys Lys Leu Ile Leu Tyr Phe Lys Arg Arg Asn
275 280 285

His Ala Arg Lys Gln Trp Lys Gln Lys Phe Cys Gln Arg Tyr Asp Gln
290 295 300

Leu Met Glu Ala Leu Glu Lys Lys Val Glu Arg Ile Glu Asn Asn Pro
305 310 315 320

Arg Arg Arg Ala Lys Glu Ser Lys Val Arg Glu Tyr Tyr Glu Lys Gln
325 330 335

Phe Pro Glu Ile Arg Lys Gln Arg Glu Leu Gln Glu Arg Met Gln Ser
340 345 350

Arg Val Gly Gln Arg Gly Ser Gly Leu Ser Met Ser Ala Ala Arg Ser
355 360 365

Glu His Glu Val Ser Glu Ile Ile Asp Gly Leu Ser Glu Gln Glu Asn
370 375 380

Leu Glu Lys Gln Met Arg Gln Leu Ala Val Ile Pro Pro Met Leu Tyr
385 390 395 400

Asp Ala Asp Gln Gln Arg Ile Lys Phe Ile Asn Met Asn Gly Leu Met
405 410 415

Ala Asp Pro Met Lys Val Tyr Lys Asp Arg Gln Val Met Asn Met Trp
420 425 430

Ser Glu Gln Glu Lys Glu Thr Phe Arg Glu Lys Phe Met Gln His Pro
435 440 445

Lys Asn Phe Gly Leu Ile Ala Ser Phe Leu Glu Arg Lys Thr Val Ala
450 455 460

Glu Cys Val Leu Tyr Tyr Tyr Leu Thr Lys Lys Asn Glu Asn Tyr Lys
465 470 475 480

Ser Leu Val Arg Arg Ser Tyr Arg Arg Arg Gly Lys Ser Gln Gln Gln
485 490 495

Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Pro Met
500 505 510

Pro Arg Ser Ser Gln Glu Glu Lys Asp Glu Lys Glu Lys Glu Lys Glu
515 520 525

Ala Glu Lys Glu Glu Glu Lys Pro Glu Val Glu Asn Asp Lys Glu Asp
530 535 540

Leu Leu Lys Glu Lys Thr Asp Asp Thr Ser Gly Glu Asp Asn Asp Glu
545 550 555 560

Lys Glu Ala Val Ala Ser Lys Gly Arg Lys Thr Ala Asn Ser Gln Gly
565 570 575

Arg Arg Lys Gly Arg Ile Thr Arg Ser Met Ala Asn Glu Ala Asn Ser
580 585 590

Glu Glu Ala Ile Thr Pro Gln Gln Ser Ala Glu Leu Ala Ser Met Glu
595 600 605

Leu Asn Glu Ser Ser Arg Trp Thr Glu Glu Glu Met Glu Thr Ala Lys
610 615 620

Lys Gly Leu Leu Glu His Gly Arg Asn Trp Ser Ala Ile Ala Arg Met
625 630 635 640

Val Gly Ser Lys Thr Val Ser Gln Cys Lys Asn Phe Tyr Phe Asn Tyr
645 650 655

Lys Lys Arg Gln Asn Leu Asp Glu Ile Leu Gln Gln His Lys Leu Lys
660 665 670

Met Glu Lys Glu Arg Asn Ala Arg Arg Lys Lys Lys Lys Ala Pro Ala
675 680 685

Ala Ala Ser Glu Glu Ala Ala Phe Pro Pro Val Val Glu Asp Glu Glu
690 695 700

Met Glu Ala Ser Gly Val Ser Gly Asn Glu Glu Glu Met Val Glu Glu
705 710 715 720

Ala Glu Ala Leu His Ala Ser Gly Asn Glu Val Pro Arg Gly Glu Cys
725 730 735

Ser Gly Pro Ala Thr Val Asn Asn Ser Ser Asp Thr Glu Ser Ile Pro
740 745 750

Ser Pro His Thr Glu Ala Ala Lys Asp Thr Gly Gln Asn Gly Pro Lys
755 760 765

Pro Pro Ala Thr Leu Gly Ala Asp Gly Pro Pro Pro Gly Pro Pro Thr
770 775 780

Pro Pro Arg Arg Thr Ser Arg Ala Pro Ile Glu Pro Thr Pro Ala Ser
785 790 795 800

Glu Ala Thr Gly Ala Pro Thr Pro Pro Pro Ala Pro Pro Ser Pro Ser
805 810 815

Ala Pro Pro Pro Val Val Pro Lys Glu Glu Lys Glu Glu Glu Thr Ala
820 825 830

Ala Ala Pro Pro Val Glu Glu Gly Glu Glu Gln Lys Pro Pro Ala Ala
835 840 845

Glu Glu Leu Ala Val Asp Thr Gly Lys Ala Glu Glu Pro Val Lys Ser
850 855 860

Glu Cys Thr Glu Glu Ala Glu Glu Gly Pro Ala Lys Gly Lys Asp Ala

865 870 875 880

Glu Ala Ala Glu Ala Thr Ala Glu Gly Ala Leu Lys Ala Glu Lys Lys
885 890 895

Glu Gly Gly Ser Gly Arg Ala Thr Thr Ala Lys Ser Ser Gly Ala Pro
900 905 910

Gln Asp Ser Asp Ser Ser Ala Thr Cys Ser Ala Asp Glu Val Asp Glu
915 920 925

Ala Glu Gly Gly Asp Lys Asn Arg Leu Leu Ser Pro Arg Pro Ser Leu
930 935 940

Leu Thr Pro Thr Gly Asp Pro Arg Ala Asn Ala Ser Pro Gln Lys Pro
945 950 955 960

Leu Asp Leu Lys Gln Leu Lys Gln Arg Ala Ala Ala Ile Pro Pro Ile
965 970 975

Gln Val Thr Lys Val His Glu Pro Pro Arg Glu Asp Ala Ala Pro Thr
980 985 990

Lys Pro Ala Pro Pro Ala Pro Pro Pro Pro Gln Asn Leu Gln Pro Glu
995 1000 1005

Ser Asp Ala Pro Gln Gln Pro Gly Ser Ser Pro Arg Gly Lys Ser
1010 1015 1020

Arg Ser Pro Ala Pro Pro Ala Asp Lys Glu Ala Phe Ala Ala Glu
1025 1030 1035

Ala Gln Lys Leu Pro Gly Asp Pro Pro Cys Trp Thr Ser Gly Leu
1040 1045 1050

Pro Phe Pro Val Pro Pro Arg Glu Val Ile Lys Ala Ser Pro His
1055 1060 1065

Ala Pro Asp Pro Ser Ala Phe Ser Tyr Ala Pro Pro Gly His Pro
1070 1075 1080

Leu Pro Leu Gly Leu His Asp Thr Ala Arg Pro Val Leu Pro Arg
1085 1090 1095

Pro Pro Thr Ile Ser Asn Pro Pro Pro Leu Ile Ser Ser Ala Lys
1100 1105 1110

His Pro Ser Val Leu Glu Arg Gln Ile Gly Ala Ile Ser Gln Gly
1115 1120 1125

Met Ser Val Gln Leu His Val Pro Tyr Ser Glu His Ala Lys Ala
1130 1135 1140

Pro Val Gly Pro Val Thr Met Gly Leu Pro Leu Pro Met Asp Pro
1145 1150 1155

Lys Lys Leu Ala Pro Phe Ser Gly Val Lys Gln Glu Gln Leu Ser
1160 1165 1170

Pro Arg Gly Gln Ala Gly Pro Pro Glu Ser Leu Gly Val Pro Thr
1175 1180 1185

Ala Gln Glu Ala Ser Val Leu Arg Gly Thr Ala Leu Gly Ser Val
1190 1195 1200

Pro Gly Gly Ser Ile Thr Lys Gly Ile Pro Ser Thr Arg Val Pro
1205 1210 1215

Ser Asp Ser Ala Ile Thr Tyr Arg Gly Ser Ile Thr His Gly Thr
1220 1225 1230

Pro Ala Asp Val Leu Tyr Lys Gly Thr Ile Thr Arg Ile Ile Gly
1235 1240 1245

Glu Asp Ser Pro Ser Arg Leu Asp Arg Gly Arg Glu Asp Ser Leu
1250 1255 1260

Pro Lys Gly His Val Ile Tyr Glu Gly Lys Lys Gly His Val Leu
1265 1270 1275

Ser Tyr Glu Gly Gly Met Ser Val Thr Gln Cys Ser Lys Glu Asp
1280 1285 1290

Gly Arg Ser Ser Ser Gly Pro Pro His Glu Thr Ala Ala Pro Lys
1295 1300 1305

Arg Thr Tyr Asp Met Met Glu Gly Arg Val Gly Arg Ala Ile Ser
1310 1315 1320

Ser Ala Ser Ile Glu Gly Leu Met Gly Arg Ala Ile Pro Pro Glu
1325 1330 1335

Arg His Ser Pro His His Leu Lys Glu Gln His His Ile Arg Gly
1340 1345 1350

Ser Ile Thr Gln Gly Ile Pro Arg Ser Tyr Val Glu Ala Gln Glu
1355 1360 1365

Asp Tyr Leu Arg Arg Glu Ala Lys Leu Leu Lys Arg Glu Gly Thr
1370 1375 1380

Pro Pro Pro Pro Pro Pro Ser Arg Asp Leu Thr Glu Ala Tyr Lys
1385 1390 1395

Thr Gln Ala Leu Gly Pro Leu Lys Leu Lys Pro Ala His Glu Gly
1400 1405 1410

Leu Val Ala Thr Val Lys Glu Ala Gly Arg Ser Ile His Glu Ile
1415 1420 1425

Pro Arg Glu Glu Leu Arg His Thr Pro Glu Leu Pro Leu Ala Pro
1430 1435 1440

Arg Pro Leu Lys Glu Gly Ser Ile Thr Gln Gly Thr Pro Leu Lys
1445 1450 1455

Tyr Asp Thr Gly Ala Ser Thr Thr Gly Ser Lys Lys His Asp Val
1460 1465 1470

Arg Ser Leu Ile Gly Ser Pro Gly Arg Thr Phe Pro Pro Val His
1475 1480 1485

Pro Leu Asp Val Met Ala Asp Ala Arg Ala Leu Glu Arg Ala Cys
1490 1495 1500

Tyr Glu Glu Ser Leu Lys Ser Arg Pro Gly Thr Ala Ser Ser Ser
1505 1510 1515

Gly Gly Ser Ile Ala Arg Gly Ala Pro Val Ile Val Pro Glu Leu
1520 1525 1530

Gly Lys Pro Arg Gln Ser Pro Leu Thr Tyr Glu Asp His Gly Ala
1535 1540 1545

Pro Phe Ala Gly His Leu Pro Arg Gly Ser Pro Val Thr Met Arg
1550 1555 1560

Glu Pro Thr Pro Arg Leu Gln Glu Gly Ser Leu Ser Ser Ser Lys
1565 1570 1575

Ala Ser Gln Asp Arg Lys Leu Thr Ser Thr Pro Arg Glu Ile Ala
1580 1585 1590

Lys Ser Pro His Ser Thr Val Pro Glu His His Pro His Pro Ile
1595 1600 1605

Ser Pro Tyr Glu His Leu Leu Arg Gly Val Ser Gly Val Asp Leu
1610 1615 1620

Tyr Arg Ser His Ile Pro Leu Ala Phe Asp Pro Thr Ser Ile Pro
1625 1630 1635

Arg Gly Ile Pro Leu Asp Ala Ala Ala Ala Tyr Tyr Leu Pro Arg
1640 1645 1650

His Leu Ala Pro Asn Pro Thr Tyr Pro His Leu Tyr Pro Pro Tyr
1655 1660 1665

Leu Ile Arg Gly Tyr Pro Asp Thr Ala Ala Leu Glu Asn Arg Gln
1670 1675 1680

Thr Ile Ile Asn Asp Tyr Ile Thr Ser Gln Gln Met His His Asn
1685 1690 1695

Thr Ala Thr Ala Met Ala Gln Arg Ala Asp Met Leu Arg Gly Leu
1700 1705 1710

Ser Pro Arg Glu Ser Ser Leu Ala Leu Asn Tyr Ala Ala Gly Pro
1715 1720 1725

Arg Gly Ile Ile Asp Leu Ser Gln Val Pro His Leu Pro Val Leu
1730 1735 1740

Val Pro Pro Thr Pro Gly Thr Pro Ala Thr Ala Met Asp Arg Leu
1745 1750 1755

Ala Tyr Leu Pro Thr Ala Pro Gln Pro Phe Ser Ser Arg His Ser
1760 1765 1770

Ser Ser Pro Leu Ser Pro Gly Gly Pro Thr His Leu Thr Lys Pro
1775 1780 1785

Thr Thr Thr Ser Ser Ser Glu Arg Glu Arg Asp Arg Asp Arg Glu
1790 1795 1800

Arg Asp Arg Asp Arg Glu Arg Glu Lys Ser Ile Leu Thr Ser Thr
1805 1810 1815

Thr Thr Val Glu His Ala Pro Ile Trp Arg Pro Gly Thr Glu Gln
1820 1825 1830

Ser Ser Gly Ser Ser Gly Ser Ser Gly Gly Gly Gly Gly Ser Ser
1835 1840 1845

Ser Arg Pro Ala Ser His Ser His Ala His Gln His Ser Pro Ile
1850 1855 1860

Ser Pro Arg Thr Gln Asp Ala Leu Gln Gln Arg Pro Ser Val Leu
1865 1870 1875

His Asn Thr Gly Met Lys Gly Ile Ile Thr Ala Val Glu Pro Ser
1880 1885 1890

Lys Pro Thr Val Leu Arg Ser Thr Ser Thr Ser Ser Pro Val Arg
1895 1900 1905

Pro Ala Ala Thr Phe Pro Pro Ala Thr His Cys Pro Leu Gly Gly
1910 1915 1920

Thr Leu Asp Gly Val Tyr Pro Thr Leu Met Glu Pro Val Leu Leu
1925 1930 1935

Pro Lys Glu Ala Pro Arg Val Ala Arg Pro Glu Arg Pro Arg Ala

1940 1945 1950

Asp Thr Gly His Ala Phe Leu Ala Lys Pro Pro Ala Arg Ser Gly
1955 1960 1965

Leu Glu Pro Ala Ser Ser Pro Ser Lys Gly Ser Glu Pro Arg Pro
1970 1975 1980

Leu Val Pro Pro Val Ser Gly His Ala Thr Ile Ala Arg Thr Pro
1985 1990 1995

Ala Lys Asn Leu Ala Pro His His Ala Ser Pro Asp Pro Pro Ala
2000 2005 2010

Pro Pro Ala Ser Ala Ser Asp Pro His Arg Glu Lys Thr Gln Ser
2015 2020 2025

Lys Pro Phe Ser Ile Gln Glu Leu Glu Leu Arg Ser Leu Gly Tyr
2030 2035 2040

His Gly Ser Ser Tyr Ser Pro Glu Gly Val Glu Pro Val Ser Pro
2045 2050 2055

Val Ser Ser Pro Ser Leu Thr His Asp Lys Gly Leu Pro Lys His
2060 2065 2070

Leu Glu Glu Leu Asp Lys Ser His Leu Glu Gly Glu Leu Arg Pro
2075 2080 2085

Lys Gln Pro Gly Pro Val Lys Leu Gly Gly Glu Ala Ala His Leu
2090 2095 2100

Pro His Leu Arg Pro Leu Pro Glu Ser Gln Pro Ser Ser Ser Pro
2105 2110 2115

Leu Leu Gln Thr Ala Pro Gly Val Lys Gly His Gln Arg Val Val
2120 2125 2130

Thr Leu Ala Gln His Ile Ser Glu Val Ile Thr Gln Asp Tyr Thr
2135 2140 2145

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